

# MANUFACTURERS' RECORD

A WEEKLY REVIEW OF THE IRON, STEEL, METAL & HARDWARE TRADES.

AND A MANUFACTURING AND TEXTILE PAPER, DEVOTED TO THE UPBUILDING OF SOUTHERN MANUFACTURES AND THE DEVELOPMENT OF THE MATERIAL RESOURCES OF THE SOUTH.

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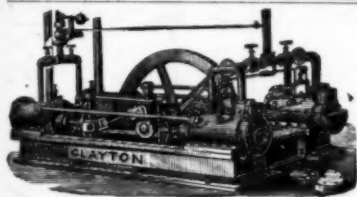
BALTIMORE, APRIL 19, 1884.

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VOL. V. No. 9.

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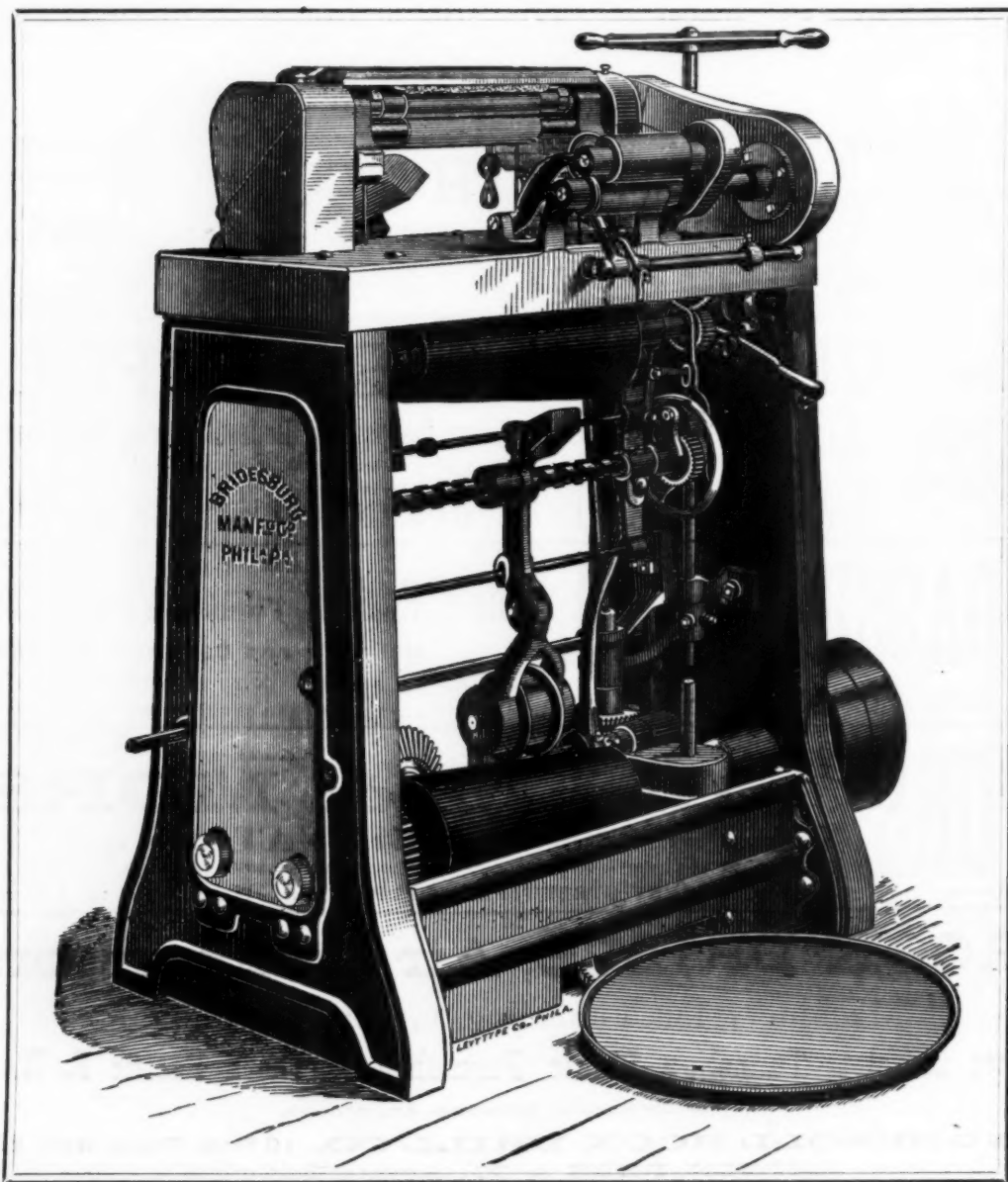
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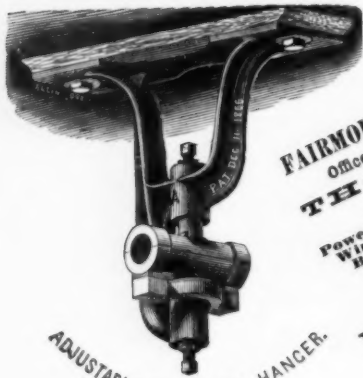
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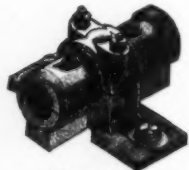
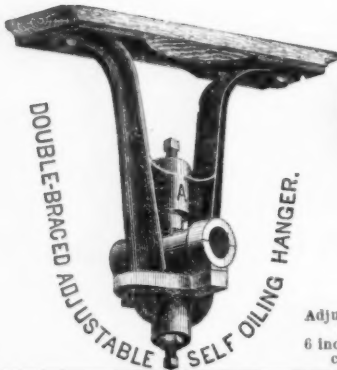
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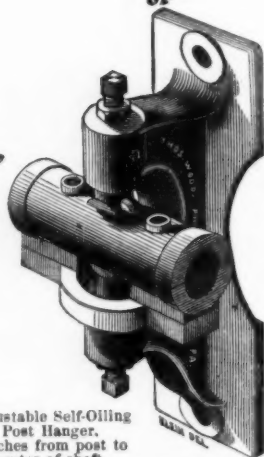
—Whitinsville, Worcester County, Mass.—



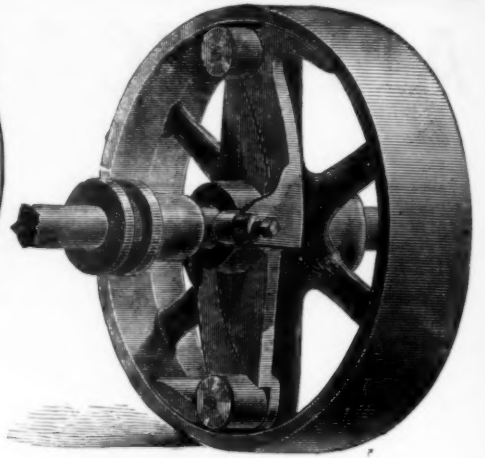
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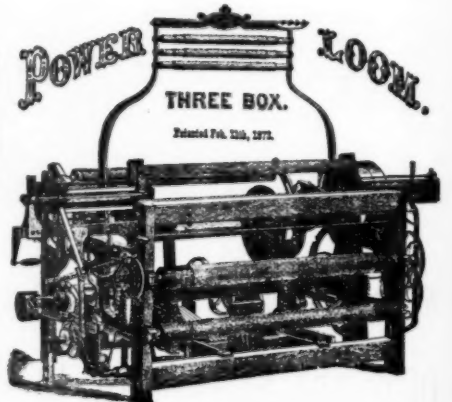
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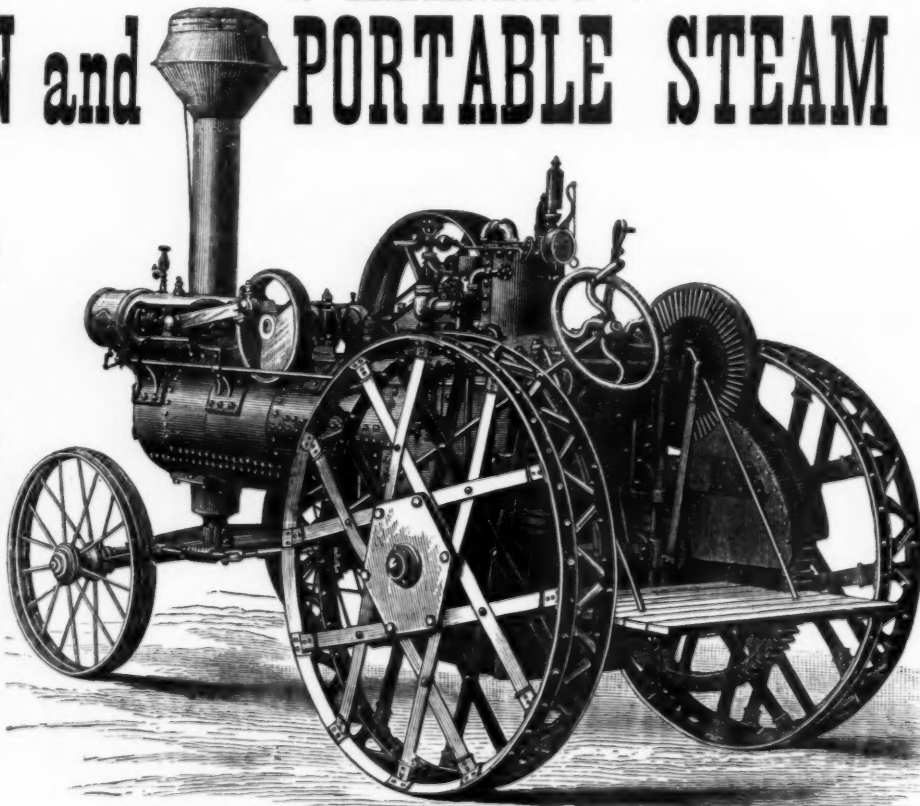
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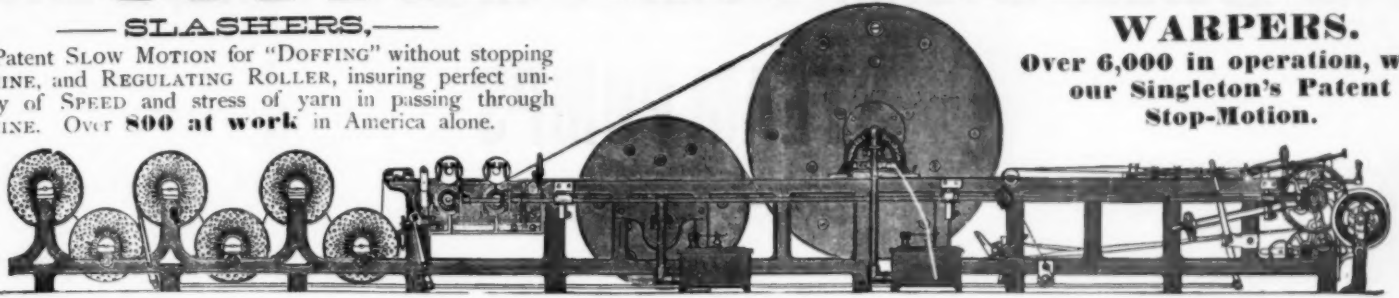
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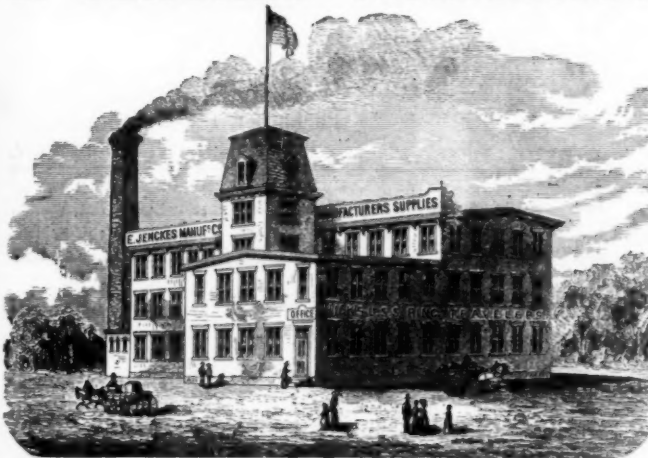
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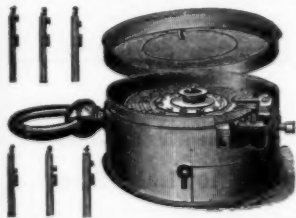
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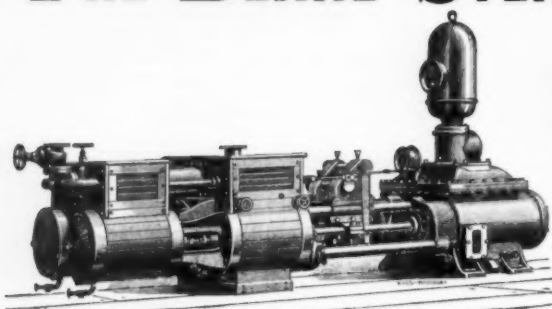
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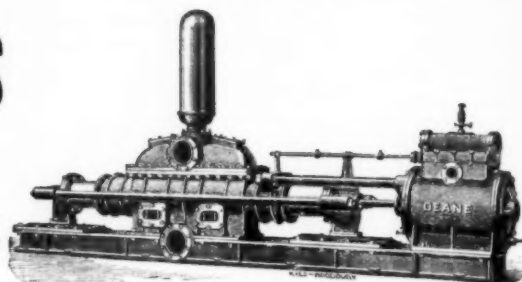
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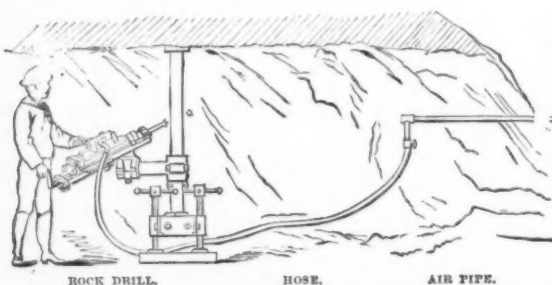
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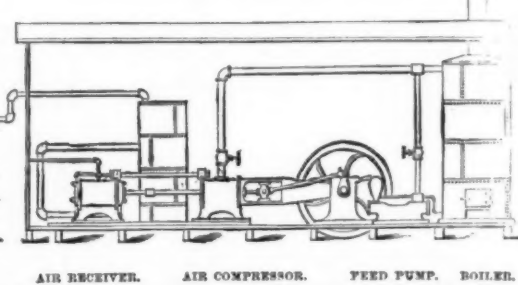
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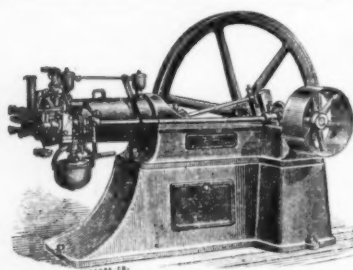
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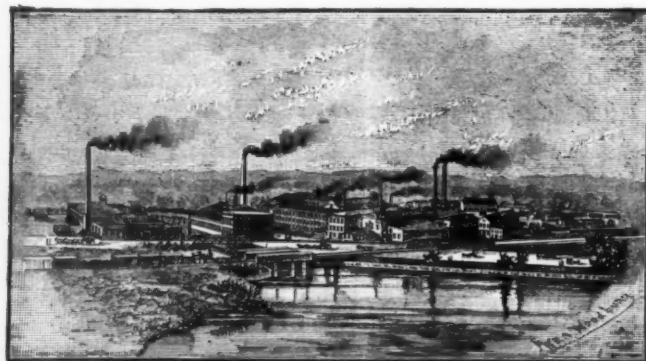
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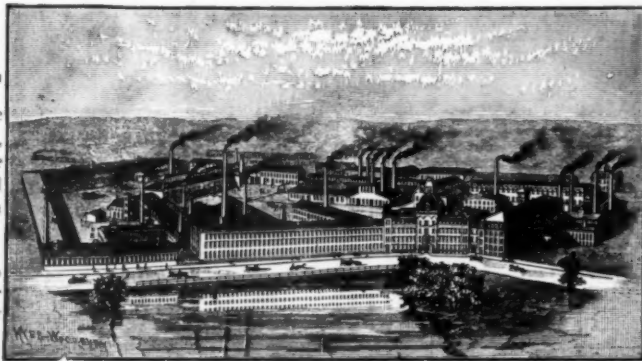
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BALTIMORE, APRIL 19, 1884.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. We invite those interested in the development of the South to make free use of our columns. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more,—so if you desire to attract immigration or capital, or if you know of an opening for profitable investment in manufacturing, mining or kindred pursuits, write us an account of it. It will be published free of cost.

THE American Machinist of March 22, 1884, exposes a patent lubricator compound which is being offered to manufacturers all over the country. The Machinist claims that it is a humbug and publishes a long list of letters to prove its assertions. Before paying several hundred dollars for the privilege of using this patent our Southern friends may find it of interest to read what the Machinist says.

Our readers will confer a favor upon our advertisers and upon us, as well as benefit themselves, if, whenever they write to anyone advertising in this paper, if it is only for a catalogue, they mention that "your advertisement was seen in the BALTIMORE MANUFACTURERS' RECORD." A careful compliance with this request will be much appreciated.

## The Advantages of Southern Cotton Mills.

Mr. Wm. H. Young, the president of the Eagle and Phoenix Mill at Columbus, Ga., the largest cotton manufacturing concern in the South, has written to the Charleston News and Courier a letter showing the advantages of Southern cotton mills. He has prepared a statement showing the detailed expenses on a bale of cotton shipped from here to a New England mill and on a bale purchased from this mill. The following is the cost of a bale of cotton bought in Columbus, Ga., and adding all expenses to lay it down in a mill in the interior of New England in their picker-room:

COST TO THE NEW ENGLAND MILL.	
Say one bale of cotton weighing 475 lbs., costing 10 cts. @ lb.	\$47.50
EXPENSE TO THE NEW ENGLAND MILL.	
Commissions, buying, resampling and shipping.....	\$1.00
Warehouse delivery, 35 cts.; drayage to depot, 10 cts.	35
Local fire insurance until shipped, 8 cts.; and marine insurance, 35 cts.	33
Average freight to a New England Interior mill, differing in rate, but averaging, on 470 lbs., 90-100.	4.27
Drayage from their depot to their picker-room.....	10
Discount on sight bill (usually 1/4%, but average 1/2%).....	13
Loss of weight to a New England mill, 6 lbs. at 10 cts.	60
Total.....	\$54.37

The commissions in the above table (\$1) include those of agents or parties who order the cotton, which is a general custom, the buyer here paying said agent a return of commission of 50 cts. per bale.

The loss of weight shown in the last item of the table arises from resampling (after it is weighed) and plucking the bales for mix-packs, losses on the way, and general shrinkage, (admitted by Northern mills.)

COST TO A COLUMBUS MILL.	
Say one bale cotton, weighing 475 lbs., costing 10 cts. @ lb.	\$47.50
Brokerage, buying and drayage to picker-house.....	30
Warehouse delivery.....	25
Total.....	\$48.05

A bale of 475 pounds yields in goods 404 pounds, (loss 71 pounds,) and a Northern mill pays freight on this 71 pounds, an expense of say 64 cents, which is not incurred by any Southern mill.

Another item is that of ginning. This company has a public gin. We buy cotton in the seed or gin for toll (but do not pack in bales.) We buy planters' remnants and light-weight bales, and as this is done (saving weight of bag and ties) the gain on all our consumption equals 1c. per pound, or 60 cents per bale.

These two items, therefore,—that of freight saved on the 71 pounds lost (64 cents) and the saving in ginning (60 cents)—reduce the cost to the Southern mill \$1.24, making the total cost only \$46.81.

RECAPITULATION.	
Cost to Interior New England mill.....	\$54.37
Cost to Columbus mill.....	46.81
Gain for the Southern mill per bale.....	\$ 7.46

This gain of \$7.46 per bale on 50 bales per day is \$373, which more than justifies my letter to Judge Buchanan. But this is not all. One item is: We sell our bagging and ties to the planters to pack their cotton in and thus gain largely over a

New England mill, and also in the sale of all our waste. Again, we buy our cotton (or can do so) to-day and put it in our picker-room to-morrow, and thus gain (in time) say fifteen days interest. There are other local advantages that I have not cited. It is proper to add, however, that (in the past ten days) the railroad wars have reduced rates 15-100 cents per pound. It is not considered permanent, but if it should be it would reduce our advantages by 50-100 cents per pound per bale, or say per bale 71 cents, and per day on 50 bales say \$35.50, still leaving our daily advantages \$337.50. If "Spinner" in a Southern mill cannot utilize the advantages of his Southern mill it is clearly his fault, or his mill is badly located.

## Winter Wheat and Increase of Southern Milling.

The flour milling interests of the South are steadily increasing, and it now looks as though in a few years the Southern people would be able to supply themselves with flour instead of being so largely dependent upon the Northwest as at present. A few years ago the immense milling companies of Minnesota, with their improved roller process machinery, which had not then been adopted to any great extent in Maryland and the other Southern States, were able to take the inferior spring wheat of the Northwest and produce a better flour than could be made from the very superior hard winter wheat of this section by the old system of burrs. This has now been changed. The old mills of this and the adjoining States have been refitted with the very best roller machinery, and the new ones that are being built are putting in this kind; so that, so far as their machinery and their ability to do good work are concerned, they are fully equal to the best mills of any of the Western States, this being especially true of one or two of our big Baltimore mills. Thus, having equal advantages in these respects, the question of which can make the best flour—the Northwest mills or Maryland mills—depends simply upon which has the best material to work upon. And upon this point there can hardly be a doubt, for it is almost universally admitted that the amber and the long-berry hard winter wheat of Maryland and the surrounding States is far superior to the spring wheat of Minnesota. In fact, the truth of this statement is demonstrated by the higher price commanded by Southern wheat over Western at all times and in all the wheat markets of the world.

The Southern wheat possesses the best combination of nutritive properties, and is thus superior as a food-stuff compared with Western wheat. Under these circumstances it is but natural that the demand is steadily on the increase for the roller process flour made from Southern winter wheat. Since the introduction of the roller system on choice winter wheat,

the winter wheat patent flour takes the lead. The New York Commercial Bulletin, of April 7th, quotes winter wheat patent higher than spring in that market, and the Boston Journal, of March 18th, in reviewing the flour trade, says: "Our best winter wheat brands have so far given satisfaction, but there has been more or less complaints about the spring wheats."

## The Leaning Towards Incorporation.

In a well-written article a Western contemporary inveighs against what it is pleased to term the "mania" for incorporation existing in all parts of this country. In stating a few of the objections against the formation of corporate bodies generally, however, the writer loses sight of the many advantages of the system. In the South, where the tendency is strong towards incorporation, there is no other means of combination that will so readily compass the end aimed at. Incorporation means giving to small stockholders rights which could not be enjoyed, with safety to the greater number, in any other form. There is not, to our knowledge, any statute upon the books of any Southern State bearing upon the solvent stockholder with that entire absence of mercy shown in the old Scottish laws, and a prosperous business man does not risk his whole future in the purchase of a few shares in some well-promising enterprise.

In the securing of foreign capital the incorporation charter has far more weight than the loose shackles of individual enterprise, and with the known resultant,—that breaches of trust are fewer, while responsibility is greater. It is a recognized fact that in the "company" form there is greater safety for the whole and less risk for the individual.

It must be granted that occasionally this convenient form is used as a cloak for well-planned rascality; but this is not the fault of the system. Rascality adopts the cloak it finds most convenient and most popular. A wolf disguising for an attack on some quiet sheep-fold would not clothe himself in the skin of a tiger. The means a prowler upon society adopts are not to be condemned because of such adoption. Gamblers can play with pins, but we do not throw pins out from our domestic economy.

While there is a vast amount of individual enterprise engaged in building up the industries of the South, the corporate form grows stronger in favor constantly, and few combinations of capital are effected in any other form. The example is set at the North, where the largest and oldest firms are changing to this corporate form. It is safe to follow where those of greatest experience lead, and we trust to see the proportion of healthy corporations, steadily grow greater from the Potomac to the Gulf.

# CONSTRUCTION DEPARTMENT.

We publish, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

R. J. Reynolds and others, of Winston, N. C., will build a \$20,000 tobacco warehouse.

J. P. Drouillard, G. M. Fogg, and J. B. Killebrew, of Nashville, and others, are negotiating to erect a furnace at Edna, Tenn.

Rumored that a furnace will be erected at Centreville, Tenn.

J. C. Parkinson will start large brickyard at Claremont, Va.

Contract has been awarded for building the very large iron furnace at Jenifer, Ala., (lately Alabama Furnace, Ala.) previously reported. Clifton Iron Co., of Jenifer, owners.

Incorporated—the Selma & Tennessee River Coal and Iron Railway Co., by H. A. Haralson and others, of Selma, Ala.

The new gas company at Louisville have purchased ground for their works.

Jones & Keys, name of firm preparing to start brick yard at Sheffield, near Tusculuma, Ala., previously reported.

Messrs. Hill, Ensley and Neeley, of Memphis, and Johns and Hillman, of Birmingham, have organized the Lady Ensley Coal and Iron Co., by electing Napoleon Hill, of Memphis, president; E. Ensley, of Memphis, treasurer; and L. W. Johns, of Birmingham, secretary. Capital, \$500,000. Will commence work soon.

The Selma, Ala., Bridge Co., previously mentioned, has been incorporated; capital, \$40,000.

The Hitchcock Press building, Mobile, Ala., has been purchased by the Danner Land and Lumber Co. of that city, and will be turned into a planing mill.

The sale of land near Macon, Ga., for a mill lately mentioned, was purchased by a new company just incorporated as the Macon Oil and Fertilizer Co.; capital \$50,000. L. M. Burns, F. J. Jenkins, A. Dexter, M. M. Hirsch, J. D. Hough, C. A. Hough, Wm. Wolf and others are incorporators. Will manufacture cotton and woolen goods, cotton-seed oil, fertilizers, &c.

Brierfield Coal and Iron Co., Brierfield, Ala., will open new mine.

The Reems Creek Woolen Mills, Weaverville, N. C., will enlarge and add new machinery.

A foundry is to be built at once at Palatka, Fla.

Emmert Bros., Hagerstown, Md., will erect a grain elevator.

The East Florida Land and Produce Co. have purchased the Bradford mill site on St. Sebastian river, and will at once erect a \$40,000 mill.

D. C. Bacon & Co., of the Vale Royal Lumber Mill, near Savannah, will add new machinery and also build a sash and blind factory.

The Texas & St. Louis Railway promise to erect machine shops at Pine Bluff, Ark. Phillips & Stewart, St. Louis, attorneys for the road, can give particulars.

A fertilizer factory is probable in Oxford, N. C.

John Moser, of Atlanta, has leased a marble quarry near Talladega and will work it.

Williams & Watson, Pulaski, Tenn., will soon have to put in new engine, boiler, &c. W. N. Webb & Son, Pulaski, Tenn., will enlarge their foundry and machine shop.

The Pulaski Cotton Mill, Pulaski, Tenn., has been purchased by a new stock company, which will enlarge the mill and probably put cotton-seed oil mill also. L. D. McCord, Pulaski, can give particulars.

Incorporated—the Coal & Iron Railroad of West Virginia, by Henry G. Davis, of West Virginia; John A. Hambleton, Wm. Keyser, T. Harrison Garrett, Enoch Pratt, Wm. Pinkney Whyte and A. P. Gorman, of Baltimore, and James G. Blaine, Senator Camden, Senator Bayard, Senator McPherson of New Jersey, and others. The road is to run from Winchester, Va., through Hardy and Grant counties, to Davis, Tucker county, where it will connect with the West Virginia Central & Pittsburg Railroad, opening up one of the richest coal-fields in the world. It will be pushed to immediate completion. The capital of the new road is \$4,500,000.

Max M. Heller, of Columbus, Ga., will establish large furniture factory at Savannah, Ga.

The Georgia Pacific Railroad will build two large warehouses at Birmingham, Ala.

Ex-Governor Geo. F. Drew and others in Jacksonville, Fla., have organized a company with \$1,000,000 capital stock, to purchase the patent and push Lowrey's Chemical Motor Power.

F. N. Bowdon, of Talladega, Ala., and others are working up project for narrow gauge road from Broken Arrow coal-fields to Savannah.

Incorporated by Leonard Garzu, W. E. Hilton, J. H. McLeary and others, the Safe and Deposit Co., of San Antonio, Texas; capital \$50,000.

Incorporated in San Antonio, Texas, by L. W. Gillett, Tom Harrison and T. S. Harrison, the Lytle Coal Co.; capital \$25,000.

A watch factory is talked of for Birmingham, Ala.

A \$10,000 Methodist Church will be built in Palestine, Texas.

Reported that Col. — Evers is working up large cotton-mill project at Yazoo City, Miss.

J. W. Glanville, Centreville, Md., will build sash, door and blind factory.

M. F. Gonzalez, Pensacola, Fla., whose mill was burned a few days ago, will rebuild.

Thos. Beard & Co., near Midway, N. C., will probably build a grist mill.

John E. Hartridge, and others, of Jacksonville, Fla., have organized a new street railroad company.

Incorporated—The Worden Lumber Co., of Tyler county, Texas; capital, \$200,000.

Mr. H. K. Parkins, of the Pitch Pine Manufacturers' Association, New York, is in Brunswick, Ga., preparing to erect a large planing mill.

R. H. Stanton & Co., of Carrollton, Ky., are adding to their planing mill a sash and door factory.

If negotiations now pending are successful, a large cotton mill in North Carolina will be transferred to a Baltimore cotton manufacturer, who will double the capacity of the mill. Particulars as soon as the sale is confirmed.

E. C. Crosby is putting up saw-mill at Chu-lu-ota, Fla.

Hume Bros., whose fertilizer works at Beaufort, S. C., were damaged to extent of about \$50,000 a few weeks ago by fire, have commenced rebuilding.

The money has been raised for the cotton mill at Trenton, Tenn., and company will be organized at once. Will run by steam, requiring 100-horse-power engine. Dr. T. J. Happel can give particulars.

Organized at Calera, Ala.—The Nottingham Land and Iron Co., capital \$1,500,000. The officers are: President, G. F. Anderson; vice-president, A. J. Fox; secretary, Wm. Anderson; and general manager, J. D. Hardy. These are the gentlemen previously reported as intending to build an iron furnace, car works, and agricultural machinery shops.

W. J. Rushton has commenced work on his ice factory at Anniston, Ala.

Jno. W. Hardy is pushing work in getting up his proposed sash and blind factory at Calera, Ala.

A stamped tin ware factory will probably be established in San Antonio, Tex.

Organized at Luling, Tex.—The Luling Water Power Co.; capital \$20,000.

Sweetwater, Tex., has definitely decided to build water-works.

Messrs. Peter Dourfer, H. Budinberg and M. Slater have purchased the Douglas Mill property at Morrilton, Ark., and will put up a \$25,000 furniture factory. They are all Northern men.

Gov. Henry D. McDaniel, Atlanta, Ga., invites proposals till July 15, for furnishing materials and constructing the \$1,000,000 capitol building at Atlanta, Ga.

R. P. Sibley and others, of Augusta, Ga., will mine coal near Birmingham, Ala. Already have contract for 50,000 tons of coal a year.

The Globe Mfg. Co., Houston, Tex., are erecting large soap factory.

Bids will be received until May 12 for the \$16,000 jail at San Saba, Tex.

The stockholders of the Eagle & Phoenix Manfg. Co., of Columbus, Ga., have voted in favor of building the new mill previously mentioned. Cost is to be about \$700,000.

Commissioners of Campbell county will receive bids at Fairburn, Ga., till May 6, for erection of jail.

The Memphis, Oxford & Columbus Railroad has been organized by J. A. Orr, Jas. T. Harrison, of Columbus, Miss., and others.

A \$50,000 furniture factory is to be started in Denison, Tex.

The Committee on City Water Works, Fredericksburg, Va., will advertise for proposals for building \$30,000 water-works.

The Jones Mine, near Asheboro, N. C., has been sold. Large amount of new machinery will be put in.

D. M. Stringer, of Gainesville, Ga., has sold a gold mine to George Kirk, of Washington, D. C., who will put in machinery to work it.

The C. A. Gambrell Manfg. Co., of Baltimore, are putting large amount of new machinery in one of their flour mills.

D. Hicks will build large saw mill in Waldo, Fla.

The Haile Gold Mining Co. (Postoffice Hailes Gold Mine, S. C.) will add new machinery and increase number of stamps from 20 to 100.

Ground has been purchased for the Light, Heat and Fuel Co., of Palestine, Tex.; previously reported.

A large hotel is to be erected at Wilson, N. C.

President Caldwell, of the Elyton Land Co., Birmingham, Ala., says car works are to be established at that place.

C. R. Dickinson, Montgomery, Ala., will build new foundry for D. K. Weir.

Burris D. Wood and others of New Orleans, have organized the Louisiana Applegate Electric Matting Co., to manufacture electric floor mats; capital \$10,000.

Maysville Manufacturing Co., Maysville, Ky., capital \$50,000, has been organized.

The Limestone Flouring Mills, Maysville, Ky., are putting in new machinery.

A large saw mill is being erected at Guyandotte, W. Va.

Wm. Truslow has purchased coal mine at Coal Valley, W. Va., and will put in machinery.

The Krebs Lithographic Co., of Cincinnati, have leased building in Denison, Texas, for a branch house, and will put in \$20,000 worth of machinery.

White & Harrel and Irvin Bros., Georgetown, Texas, will unite and put up flour mill.

Incorporated at Hamilton, Texas—The Hamilton Gin and Mill Co.; capital \$20,000. Incorporators: Geo. T. Perley, W. T. Cropper and J. A. Shannon.

## BURNED.

Mill of C. H. Flegan, near Ripon, W. Va.; loss \$6,000.

Saw mill of W. M. Music, near Bremen, Georgia.

Grist mill and gin of A. W. Roberts, at McConnells, Ga.

The Farrar Flour Mill, near Greensboro, N. C.

Flour mill of W. B. Farrar, near Greensboro, N. C.

Lumber mill of Milner Caldwell, at Bolling, Ala., damaged by fire.

Grist mill of F. Gonzalez & Co., at Pensacola, Fla.

Saw mill of Jackson & Co., near Kittrell's Church, Gates Co., N. C.; loss \$10,000.

HOWARD, BULLOUGH & RILEY, of Boston, Mass., have just received orders from the Seconnet Mill, Fall River, for 17 of their electric stop-motion drawing frames, making 68 deliveries. These machines stop when the slivers break behind, when sliver breaks in front, when can is full, and also if the cotton begins to lap up on the rolls. Waste is almost entirely done away with. The machine is positive in its action and very simple. The Seconnet Mills also ordered from the same firm their slashers, which will contain all the Howard & Bullough improvements.

WHEN you go to Cincinnati stop at the Palace Hotel. You will find comfortable, well-furnished rooms, good meals, polite and accommodating attendants,—everything, in fact, calculated to promote your comfort and make your stay pleasant. It is a new hotel, and everything about it is new, fresh and attractive. The charges are as low as those of any other first-class hotel.

## LOCKWOOD, GREENE & CO. MILL ENGINEERS

Office, 65 Westminster St., Providence, R. I.

Carefully prepared plans, specifications and estimates furnished for the construction, equipment and organization of new mills and the revision and improvement of old.



## Georgia's Peach Paradise.

SOUTHERN OFFICE

BALTIMORE MANUFACTURERS' RECORD,  
GRIFFIN, GA., April 14, 1884.

There is a region of ridge in middle Georgia, extending for 80 miles in length and about 5 miles in width, embracing 400 square miles of territory, that I have no hesitancy in pronouncing the finest peach territory in the world.

In 1868 an Alabama judge, John D. Cunningham, thought of moving to Georgia. He employed Dr. M. P. Hardin, a scientific fruit man, to locate a peach farm for him. After reconnoitering the whole Southern country he selected a locality some six miles from this place. Griffin is 40 miles from Atlanta and 60 from Macon, on the direct line of the Central Railroad. Judge Cunningham has to-day the largest peach farm in the South. The selection of Dr. Hardin was fully vindicated. In 16 years Judge Cunningham has lost but one crop of peaches.

He has 70,000 bearing trees and his farms include 1,500 acres. He is steadily increasing his acreage of fruit. He planted 10,000 new trees this winter. When his trees get old he makes no effort to rejuvenate them, but cuts them down and puts out new orchards.

Well, this favored fruit region, the very paradise of the peach, extends along the line of railroad from Forsyth, 25 miles of Macon, to Jonesboro, 20 miles of Atlanta. It is elevated ridge land, where the frost never hurts the fruit, or rarely ever. It is too cool for the fruit to bud prematurely, and there is no blossoming until the danger of frost is over. Lands right contiguous to it have fruit killed by frost two years out of three, while the fruit on this ridge escapes. Not only this, but the soil makes an unusually sweet-flavored fruit, adorned with an uncommonly vivid coloring. The Chinese cling peaches raised on this ridge bring \$6 a bushel in the Northern market when other peaches sell for only \$2 a bushel.

Judge Cunningham has placed his son, John D. Cunningham, Jr., a young man of 21, in charge of this vast orchard. The young man is thoroughly up to it. He can even tell the sex of the buds. The judge is president of a refrigerator car company, and ships his fruit to all of the Northern and Western markets by these cars, which, after his season is over, are used in transporting oranges and vegetables from Florida and Southern Georgia.

One year Judge Cunningham, rather than allow his over-ripe fruit to be distilled, let it waste when he could have realized 50 cts. a bushel for the 10,000 bushels that decayed. He thus sacrificed \$5,000 to his temperance principles.

This marvellous fruit region not only grows peaches, but other fruit. The pear and apple do not do as well, but it is equally good for grapes as for peaches. The Woodruff grape farm, of 400 acres, is a famous plantation in these parts. Let us see the fruit farms started in the immediate vicinity of Griffin: The Cunninghams, 500 acres; Woodruff, 400 acres; Batery, 100; W. Woodruff, 100; J. Keller, 100; Husted, 100; P. Smith, 100; Leavenworth, 50; McKelvey, 50; small fruit men, 100; making 1,600 acres of peaches and grapes, of which probably 50% are peaches.

There is not only an unexampled opportunity for fruit-raisers here, but there is a splendid chance for men to invest money in canning fruit and vegetables, and in the evaporation of fruit. A man with \$1,000 capital can have a large canning business. This section must become a continuous orchard and vineyard, and there is room for attractive investment. I. W. AVERY.

ONE of the leading cotton manufacturers of Baltimore is now in the South making the final arrangements for the purchase of a large cotton-mill property. As soon as the transfer is made the new owner will proceed to double the capacity of the mill.

## MANUFACTURING.

Subscribe to the *Baltimore Manufacturers' Record*. Price \$3 per year.

BALTIMORE.

MESSRS. JACKSON & TYLER have sold a horizontal cut-off engine, 30-horse power, manufactured by the Taylor Manufacturing Co., to Messrs. Brewington & Dorman, who have moved from Salisbury, Md., and located in this city a factory for the manufacture of a full line of japanned and stamped tinware.

MR. R. SWORMSTEDT, general agent for the Ewart Detachable Belt Co., No. 18 E. Falls avenue, reports his business as good, having received orders from the city and the South for present and future delivery. Parties who have used this chain belting say that it gives the very best satisfaction.

MR. WM. R. EMERSON, general agent for E. M. Birdsall Co., reports his business as opening up very bright, having received during the week a liberal supply of orders for traction engines, saw mills and threshers. He announces to the trade that since the reorganization of the company and the increase in their capital their facilities are greater than ever before. Numerous improvements have been made in the machinery manufactured by them, and their traction engines, it is claimed, now stand without a peer. At the present time they are working at the factory 500 hands. An illustrated catalogue will be sent free of cost to all who desire to know anything regarding the Birdsall manufactures.

MESSRS. ZELL & BURTON, proprietors and sole manufacturers of the safety water tube boilers, No. 42 North Holliday street, are executing an order for a 400-horse power boiler for a firm in Philadelphia, and have numerous inquiries from home and abroad.

MESSRS. R. M. SPEDDEN & Co., South Broadway, are busier at this time than they have been for quite a while. They are overhauling the tug Sampson; putting in a new boiler and overhauling the engine of the tug Jupiter; repairing the shaft and putting on a wheel for the tug Gracie Titus, and doing general repairs on the schooner Briggs. They have just finished overhauling the four-mast schooner Jeanie and are doing considerable work on English steamships.

MESSRS. J. F. HESSE & SON, cutlers, North Holliday street, report business as very brisk, having received some large orders from the city and the South. They are about to begin on an order for Messrs. Murrill & Keiser, which calls for 1,400 knives, and have another large order from Norfolk, Va.

IN GENERAL.

THE Columbia Cotton Mill Company, of Columbia, Tenn., recently organized, are to go ahead immediately with their enterprise. They will build a 100-loom mill. The main mill building will be 196 feet long by 75 feet wide and two stories high. There will be suitable wings for engine and boiler houses, also for picker machinery. The tower will be at one end of the mill, so that the mill may be extended in the future to a 300-loom plant. This company will make the best quality of sheetings and shirtings, and are seriously considering the idea of adding a bleachery to their plant, thus enabling them to put their goods on the market as bleached cottons. Mr. W. C. Jones, the general manager, has recently been North and placed orders for machinery. The pickers, cards, slathers and cloth room machinery to be built in Lowell; the spinning, roving and looms being built in Providence. The capital of the company is \$100,000, all of which is from local subscription. The mill will be in operation by October 1st, 1884.

ROBT. WETHERILL & Co., in Chester, Pa., are building the engines, boiler and other machinery for the new cable railroads for the Market street and Union passenger railroad companies in Philadelphia. The engines are to be of 500 horse-power each. They have also a number of orders for Corliss engines.

THE Lidgerwood Manufacturing Co., of 96 Liberty street, New York, among recent orders, report the sale of two of their improved patent friction drum hoisting engines to the Lehigh Valley Railroad for use on their docks at Perth Amboy; one pile-driving engine to the Philadelphia & Reading Railroad; one to the Flint & Pere Harquette Railroad, and three to the Alabama Great Southern Railroad. This company make a specialty of hoisting engines for railroad purposes.

## Selma's Boom.

A Rapidly Developing City.

SELMA, ALA., April 11, 1884.

Editors *Baltimore Manufacturers' Record*:

Too much cannot be said of Selma and her many advantages as a manufacturing centre.

Here are the foundations; here the natural advantages; and a great city must and will spring up. Selma is situated nearly in the centre of the State, and is the centre also of the great "black belt," (and I have no reference to the colored population in using these two words,) the great belt of black lands running for many thousands of square miles around us, and known throughout the State as the best and most productive agricultural region on the Alabama river; virtually at the head of navigation, with six railways reaching in every direction, and a line of steamers to the gulf, how could our advantages be greater for the shipping and handling of all manufactured stuffs? As a cotton manufacturing centre I claim that this city has no equal. The cotton raised in the "black belt" around us is eagerly sought by the Northern mills, who claim its staple has the advantage over all other grades of cotton raised in the South. This cotton, of such superior staple, can be bought right here at the doors of the cotton mill, spun, shipped and put on the market and at better rates than the manufacturers in Maine and Massachusetts who pay the broker there for the compressing and freight North. These advantages must and will attract the attention of the manufacturer.

We have a cotton mill, which has never spent an idle day; the hum of its looms has never ceased since the day it was started,—some five years ago,—and this last winter they have doubled the capacity of the mill, and are now running 10,216 spindles, and paying 8 and 10% dividends. The demand for its goods has always been greater than they could supply.

We have the room for many more cotton mills in Selma, and we know of no one who would be more pleased and willing to give all the information and experience of his own mills to parties desiring to locate here for the manufacturing of cotton than the present able secretary and treasurer of the Matthews Cotton Mills, of this city.

Fuel can be had cheap; we are in 40 miles of the finest coal beds in the world, reached by two lines of railroads, and a third line will run to these mines in six months. We have the best of water, which can be had by the boring of artesian wells, which will force water to the third story of any building.

Selma has other advantages for the manufacturer.

We have the best lumber for the manufacture of furniture right at our doors, and to be had almost for the clearing of the land.

This might be made a great steamboat-building place. In Selma were made and

successfully launched two of the largest iron-clad war vessels used in the Confederate States Navy.

Here, also, we manufactured the heavy guns to equip them, and to supply the army.

My dear sirs, our advantages are so many and varied that I can but poorly give you any just conception of their value.

Selma, I must add, is alive with new energy and life, and if that word "boom" has any meaning it is clearly defined and proven by this new life, vim and activity that has laid hold of its citizens. Among our industries at present I mention:

The Matthew Cotton Mills Company.  
Central City Oil Mills.  
Peacock's Foundry and Iron Works.  
Two machine shops.

One large compress, one of the most powerful in the South.

Wagon and carriage factory.

Hollow-ware works and foundry.

Ice factory.

Seven large cotton warehouses, handling 100,000 bales annually.

One large brick-yard.

Two large coal-yards.

Three lumber-yards.

Among the attractions I will mention our mineral wells. We have some 70 of them flowing splendid mineral waters, whose medicinal qualities are unquestioned, and arrangements will be made to make this city a winter resort for Northern people.

The writer has written but hurriedly, and shall avail himself of your kind offer of space in your valuable paper.

Yours very truly,

GEO. A. WILKINS.

## New Industries at Trenton, Tenn.

The Cotton Mill to be Built.

TRENTON, TENN., April 11, 1884.

Editor *Baltimore Manufacturers' Record*:

GENTLEMEN—Our cotton-factory enterprise, about which I wrote you in February, has taken tangible shape. Nearly the entire capital stock has been subscribed—more than we first expected to raise. A committee has been appointed to draft a charter, which will be at once applied for and obtained. Within a week we expect to organize. Many letters of inquiry have been received from manufacturers of machinery, in response to your notice of our enterprise. We are now ready to correspond in good earnest with them. We intend erecting a factory of 50 looms and the proper number of spindles to supply them with yarns to make four-quarter sheetings from 3 yards to 3.30 yards to pound, and perhaps drillings—all unbleached goods. Will run by steam, and expect to buy a 100-horse-power engine, so as to enlarge our capacity. Mr. Jas. H. Freeman has begun the erection of a furniture factory, which will give employment to forty or more hands.

The broom factory has ordered its machinery, and will soon begin to turn out numbers of superior brooms.

The Trenton Manufacturing Co. is completing about ten dozen chairs per day, and cannot supply the demand.

The Milan Marble Yard has leased a lot here, and will move its business to this place.

Our enterprising foundrymen, J. I. Wells & Son, contemplate manufacturing wooden-chair bottoms.

We need now another railroad, and our city would soon double its population.

Several other factories of different kinds are in embryo—among them a soap factory.

Yours truly,

DR. T. J. HAPPEL.

If you are not already a subscriber to the *BALTIMORE MANUFACTURERS' RECORD*, send us \$3 and you will receive it regularly for one year or six months for \$1.50.

### Sperry's Upward Jet Concentrator.

This machine is designed to separate the rock or valueless portion of the ore from the metallic portion by the differences in the specific gravity. It is adapted to all concentratable ores and slimes of gold, silver, copper, tin, zinc, &c., and mill tailings.

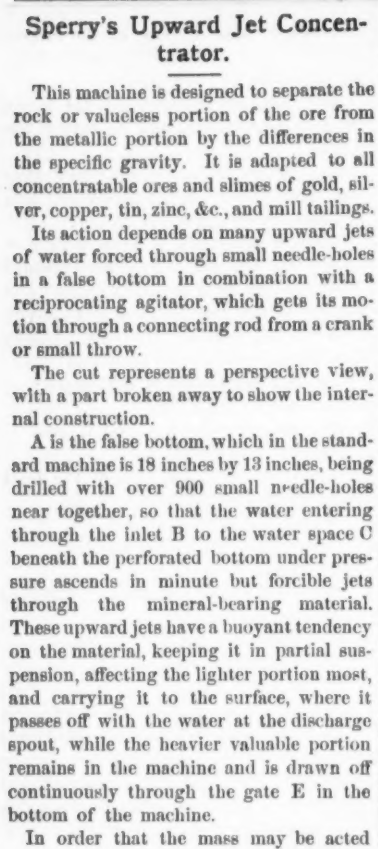
Its action depends on many upward jets of water forced through small needle-holes in a false bottom in combination with a reciprocating agitator, which gets its motion through a connecting rod from a crank or small throw.

The cut represents a perspective view, with a part broken away to show the internal construction.

A is the false bottom, which in the standard machine is 18 inches by 13 inches, being drilled with over 900 small needle-holes near together, so that the water entering through the inlet B to the water space C beneath the perforated bottom under pressure ascends in minute but forcible jets through the mineral-bearing material. These upward jets have a buoyant tendency on the material, keeping it in partial suspension, affecting the lighter portion most, and carrying it to the surface, where it passes off with the water at the discharge spout, while the heavier valuable portion remains in the machine and is drawn off continuously through the gate E in the bottom of the machine.

In order that the mass may be acted

upon equally, without forming channels, by the water, through it leaving parts undisturbed, and to evenly distribute the material in the machine, there is provided a reciprocating agitator F, consisting of a head filled with downward-projecting steel wires running near the false bottom; this is mounted upon four forked arms or springs, which allow the necessary reciprocating motion without the friction or wear due to journals, pivots or joints. The downward prongs agitate the mass, so as to bring new material in the path of the many jets with every movement. The motion is communicated by the connecting rod from the crank-pin H, which gives a smooth, noiseless vibrating motion; upon the top of this vibrating head is the receiving hopper I, which extends downward to within about two inches of the bottom of the machine and delivers the fresh material some distance below the surface of the lighter material already partly separated.



SPERRY'S UPWARD JET CONCENTRATOR.

A small water pipe J conducts a stream of water to the hopper, to facilitate the feed and prevent clogging. The progress of the work may be seen through the glass panel K.

At B, the point where the water enters the machine, there is a partition which extends upward from the true bottom; this partition runs transversely backward and forward, terminates at the plug M, which may be furnished with a valve, the function of which is to allow a liberal

escape of water when open. The inlet valve being open, a strong flow is admitted and a violent current is induced through the channels, carrying with it all the fine ore and quicksilver which may have accumulated below the false bottom out of the opening M, then by closing this outlet the work can proceed as before.

The crank shaft has two heads, so that two machines may be run with one belt, or, by connecting one machine with another, four machines can be run with one belt.

The power to run four machines is not more than one-half of one-horse power.

The movement of the material is forward during the process, and an accumulation of the mineral will appear at the bottom, which may be seen through the glass; after a sufficient body has accumulated the gate E should be opened sufficient to discharge as fast as it accumulates, always being particular that a body of at least one inch of the concentrated material is in the machine to draw from, making the operation automatic.

In order to concentrate properly the material should be well sized and each size worked separately, with just sufficient water pressure to carry over the light material and retain the heavy.

This machine will work on any ores where there is a fair difference in specific gravity between the mineral to be saved and the waste matter.

Concentration is often required after the ore has gone through one treatment, as in

the case of gold ores which carry fine gold and sulphurets, it being desirable to amalgamate the free gold and concentrate the sulphurets. In this case the stamp mill and copper plates are usually resorted to, and it becomes necessary to pulverize the ore to 40 or 60 mesh, and an ore pulverized wet to this fineness by stamps will produce from 30 to 35% slimes, or, in other words, 30 to 35% will be 100 mesh and finer. These slimes are in the worst possible condition that an ore can be put for concentration, and must be concentrated with a very light flow of water, the operation being necessarily slow, and a greater percentage of loss will occur here by the mineral being floated off by the water.

When concentration is the first object in view it is not desirable to use stamps, but a machine that will produce the most uniform size.

It is well known that the mineral portion of many of the ores is more brittle than the rock portion, and in such ores by most of the methods used in reducing the mineral is ground to a fine powder, while the silica or rock is granular or coarse.

Mr. Sperry says: "I am prepared to be put to the most rigid tests with machines I have in actual operation at No. 12 Cortlandt street, New York, and challenge the world to produce a plant that will do as perfect concentration with so small an outlay of money and power."

He is also prepared to estimate for full

and complete plants for concentration, or for gold and silver mills, mine and mill supplies of every description, having had an experience of 35 years in the business.

Address J. A. Sperry, general agent, 12 Cortlandt street, New York.

### List of Patents.

The following patents were granted to citizens of the Southern States, bearing date April 8, 1884. Reported expressly for this paper by Louis Bagger & Co., mechanical experts and solicitors of patents, Washington, D. C.

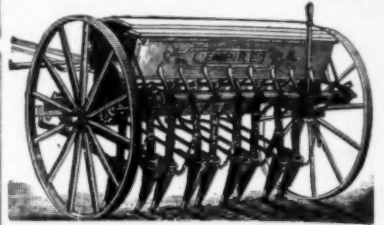
- 296,502. Anderson, C. B., Maysville, Ky. Fire-escape.
- 296,579. Bailey, Clem., Kinston, N. C. Child's carriage.
- 296,509. Bartholemew, S. W., Castalia, N. C. Elevator for seed-cotton and other material.
- 296,307. Bell, J. E., Nashville, Tenn. Vehicle wheel.
- 296,670. Bryan, W. C., Nashville, Tenn. Dumping wagon.
- 296,526. Chase, C. H., New Orleans, La. Folding staircase.
- 296,544. Edwards & Haubman, New Orleans, La. Sugar-dumping wagon.
- 296,686. Gresham, Job A., Waynesboro, Ga. Bale tie.
- 296,687. Groves, W. F., Marietta, Ga. Cotton-gin house.
- 296,586. Hodel, J. A., Cumberland, Md. Car replacer.
- 296,574. Jaquith, Gilman, Maysville, Ky. Thread separator for ring-spinning frames.
- 296,575. Johnson, G. T., Augusta, Ga. Car-coupling.
- 296,577. Johnstone, H. L., Palmetto, Ga. Car-coupling.
- 296,334. Jones, J. H., Lynchburg, Va. Circular sawing machine.
- 296,582. Krause, Earnest, El Paso, Texas. Lift or elevator.
- 296,697. Layman, H. D., Benton, Ark. Corn-planter.
- 296,698. Layman, H. D., Benton, Ark. Cotton-planter.
- 296,599. Layman, H. D., Benton, Ark. Seed-sower.
- 296,700. Layman, H. D., Benton, Ark. Cotton-chopper.
- 296,590. Lyons, Sidney, Brookston, Tex. Car-coupling.
- 296,766. O'Mara, Michael, Charleston, S. C. Pattern for car-axle boxes.
- 296,319. Park, H. S., Henderson, Ky. Electro-magnetic car brake.
- 296,442. Parsons, R. R., Jackson, Miss. Saw-mill set works.
- 296,613. Peterson, Nicolai, Charleston, S. C. Buoyant propeller for vessels.
- 296,445. Phillips, M. P., Lakeland, La. Machine for pulverizing clay.
- 296,680. Schroggen, J. B., Mountain Home, Ark. Churn.
- 296,733. Scott, Legrand, Nashville, Tenn. Fence-post.
- 296,471. Sisk, F. M., Newnan, Ga. Gin-saw filing machine.
- 296,476. Smith, J. S., Marshall, Ark. Propelling apparatus for vessels.
- 296,647. Toglio, Peter, Charleston, S. C. Imitation brick weather-boarding and boarding for frame houses.
- 296,655. Walker, J. T., Baltimore, Md. Bottle-stopper.
- 296,489. Walter, W. C., Richmond, Va. Lamp extinguisher.
- 296,492. Wheeler, E. H., Corpus Christi, Tex. Lock-stitch ripper.
- 296,497. Winstead, E. E., Dresden, Tenn. Hame.

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Patent applied for.

Cut Half Size.

HARTFORD, CONN.

## THE SOMBART Gas Engine

### PATENT

Started Instantly. No Fire to Build. No Boiler to Watch. No Engineer Required. No Coal nor Ashes. No Water Needed.

NO DANGER OF EXPLOSION! Four Sizes,  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  and 1-horse-power. (Actual.)

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**Phosphate Crusher.**

This cut represents a Phosphate Crusher set up ready for running with the front cut away, showing the interior of the machine where the material is crushed. The hopper is large enough to hold from one to two wheel-barrows of rock at a time; being dumped in at the top it passes down between the revolving shaft and the inside lining of the mill.

Figure No. 1 shows the nut which is placed on the upright shaft, and which shows by the lines around it to be in three pieces; the bottom section is the part that has the most wear, and can be renewed without losing the top part. No. 1 is used for crushing rock that has been dried.

Figure No. 2 is made in two parts, and is used on rock before drying.

The machine is simple in all its parts, and can be taken apart and put together in working order in half an hour by any one

**A Thriving Tennessee Town.**

PULASKI, TENN., April 5, 1884.

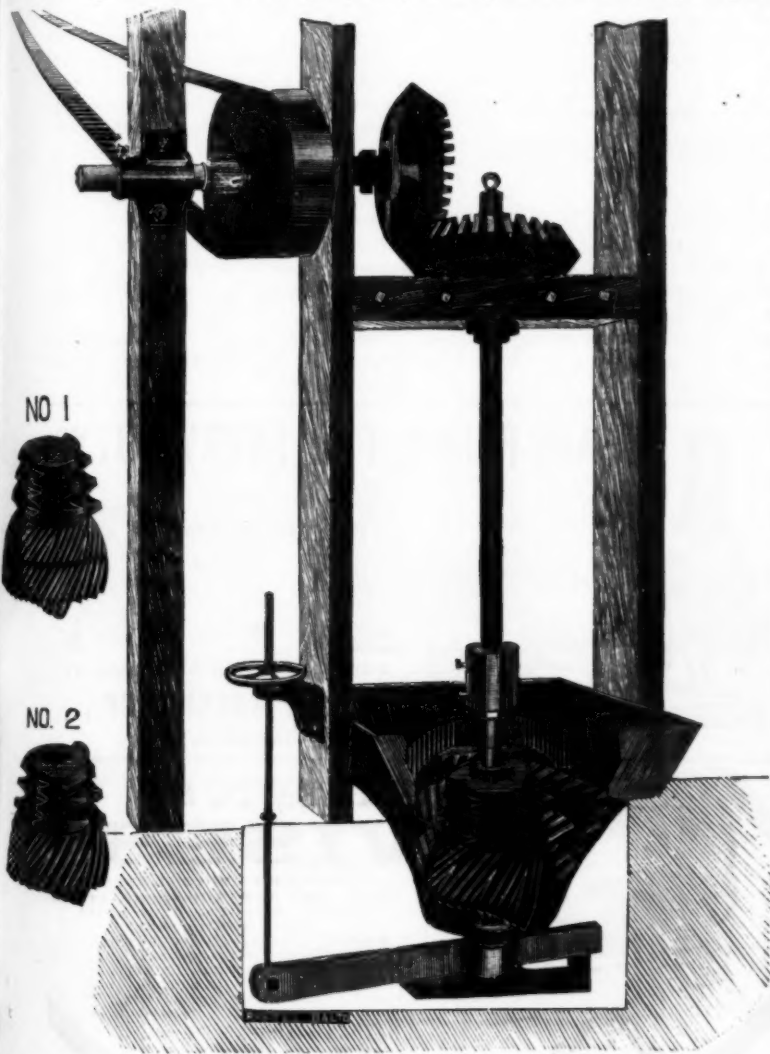
*Editor Baltimore Manufacturers' Record:*

A company was chartered here (Pulaski, Tenn.) to-day for the purpose of manufacturing cotton and woolen goods and cotton-seed oil, with the following directors: Ex-Gov. Jno. C. Brown, at present attorney for J. Gould, with office at St. Louis; Col. S. E. Rose, president Giles National Bank; Capt. Jno. D. Flautt, cashier of same; J. P. May, vice president People's National Bank; Hon. N. Smithson, ex-State Senator from Giles county; Dr. D. C. Gordon, J. B. Childers, and L. W. McCord. A strong directory, the character and standing of which gives assurance of success. The company, I understand, has been offered control of the cotton and woolen mills now in operation here, at a very inviting figure, which will enable them to commence operations without delay and just-

The goods made are sheeting, shirting, yarns, warps, knitting cotton, plain and twilled linseys, jeans, wool yarns, &c., and they have an established local demand. They buy all raw material used from the producers delivered at the mill door free from cost of transportation or commission, waste or stealage, which of itself affords a handsome profit over the Eastern mill.—This is a rich, thrifty section, and is just on the line where the cotton belt on the South and the blue-grass basin of Middle Tennessee and Kentucky overlap each other. Not only are the raw materials cheaper, but living is 20 to 25 per cent. cheaper also. I understand the company will invite the co-operation of some Eastern capital to some extent, and, if so, investors had better correspond with some of the gentlemen pretty soon, as it is not likely the books will be open very long. True, there is room here for another company, or for a half dozen as for that, but probably not under circumstances so advantageous. I am informed that the entire property described above was purchased by the new company for about \$35,000, which is said to be less than half its cost, and that for an expenditure of less than \$10,000 it can be completely modernized. If this be so, and the well-known sagacity and standing of the able board of directors gives ample assurance of its correctness, then the new company starts out with unprecedented advantages and the cheapest manufacturing property in the South, considering its favorable location and surroundings. The manufacture of cotton-seed oil is to be added, if the stockholders so decide, in ample time for the coming crop. This feature will add greatly to the profitability of the enterprise. It pays big dividends everywhere. Messrs. Williams & Watson are adding new machinery to their large planing mills, and will have to put in a larger engine and boiler.

Messrs. Patterson & Pitman have recently greatly enlarged their planing mill and added some new machinery. The large flouring mills of Messrs. Childers, May & Co. is now under full headway and supplying the regions south of us with flour. The foundry and machine shop of Messrs. W. N. Webb & Son, manufacturers of the celebrated O. K. Gin, is to be enlarged. The Vale Mills Rope and Twine Co. have recently put in some new twistors and ballers, and are negotiating for more. There are several steam ginners and several others run by water and horse power, doing good business in season. Two large tanneries, a carriage factory and several wagon and plow shops comprise our list. But there is a good field here for sorghum sugar machinery, wagons, plows, &c. We of this section have never, until very recently, been fully awakened from the Rip Van Winkle sleep which fell upon the South before the war, but some of our most enterprising citizens are moving with a vim which promises better things hereafter. The advantages we possess are beginning to be realized and to attract attention, and large investments are expected in the near future. Those who get in first will reap the fruits first. T. E. N.

MESSRS. H. J. & G. R. CRUMP, who were so successful at Congress Hall, Cape May, will not renew their lease of that establishment for this season, but will give their whole attention to the Devon Inn, at Devon, Pa., which has been rebuilt since it was destroyed by fire last August. The new house is fire-proof, and in furniture and equipments is probably the most elegant summer hotel in this country. Some idea of its magnificence may be gathered from the fact that, while it has only 150 rooms, its cost was \$350,000. Mr. Edward A. Gillett, for three years the proprietor of the Hotel Kaaterskill, Catskill Mountains, has severed his connection with that house and leased the new Grand Hotel, Catskill Mountains, the finest house in the Catskills. The Messrs. Crump and Mr. Gillett are proprietors of the Colonnade Hotel, Philadelphia, one of the best hotels in the country.

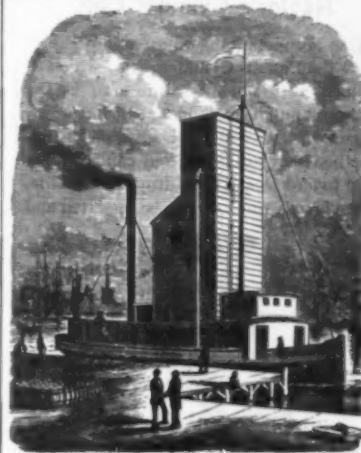


PHOSPHATE CRUSHER.

when they get acquainted with it. The nuts and liners are made of a new composition, which is equal if not better than chilled iron; they cannot be cut in any manner. The wear on the nut and liner is not over one cent per ton. All parts are made heavy and strong; the upright is made so as to slip out at the coupling above the mill; on top of the shaft is an eye bolt, and by putting a chain-fall over it the set screw, being slackened up, can be lifted out in a very short time, and new nuts and liners can be placed in it. It also has a lever and screw to raise the shaft that the nut is on, so as to keep the scraper at the bottom of the nut from cutting out the bottom of the mill.

It can crush from six to eight tons per hour, requiring about eight to ten-horse power to run it. For further information, address John N. Marquette, No. 6 W. Falls avenue, Baltimore, Md.

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Wire Railing for Cemeteries, Lawns, Gardens, Offices and Balconies; Window Guards, Tree Guards, Wire Cloth, Sieves, Fenders, Cages, Band and Coal Screens, Iron Bedsteads, Chairs, Settees, &c.





Nails.—The report of the establishment of a pool to embrace all the Western mills, while very interesting, does not gain complete credence, as several of the mills have lately emphatically declared they would enter into no such combination; that the time had gone by for temporizing measures; that the best mills must take their rightful places as the blast furnaces are doing.

Wire.—Is still very scarce and in strong demand. The advance is easily obtained, and nobody grumbles at it.

### St. Louis Iron Market.

Specialty reported by HOPPER & Co., Pig Iron and Iron Ore, No. 214 Pine Street.

St. Louis, April 14, 1884.

The market continues dull. We have marked prices on some brands lower. We quote:

HOT-BLAST CHARCOAL.	
Missouri.....	\$19 00@20 00
Southern.....	20 00@22 00
Ohio.....	24 00@25 00
COKE AND COAL.	
Missouri.....	19 00@20 00
Southern.....	18 50@19 50
Ohio.....	21 00@25 00
MILL IRONS.	
Red Short.....	17 50@18 50
Neutral.....	17 00@18 00
CAR-WHEEL AND MALLEABLE IRON.	
Missouri.....	19 50@21 00
Southern.....	20 00@22 00
Ohio.....	25 00@26 00
Iron, pig.	

### Chattanooga Iron Market.

Specialty reported by S. B. Lowe.

CHATTANOOGA, TENN., April 14, 1884.

While we have no change to make in prices we note a firmness in some lines of heavy hardware. From present indications there is a probability of nails advancing in the near future. As barbed wire is an article regularly manufactured here, we add it to our list. We quote:

No. 1 Foundry.....	\$18 00 @19 00
No. 2 Foundry.....	17 00 @18 00
Gray Forge.....	14 00 @15 00
Car-Wheel Metal.....	23 00 @25 00
Nails, car load lots.....	2 50 @—
Bar Iron.....	1 55 @—
Old Rails.....	21 50 @—
Old Wheels.....	16 00 @17 00
Wrought Scrap, No. 1.....	11 00 @15 00
Spikes (Railroad).....	2 40 @—
Spice Bars.....	1 90 @—
Light Rails.....	2 15 @—
Barbed wire—4-pt. galvanized.....	6 @—
Cambridge Link.....	6 @—

### PAINTS, OILS, &c.

PAINTS.	
Black Lamp, coach painters.....	1 lb 30c
Black Lamp, ordinary.....	1 lb 25c
Black Ivory Drop, fair.....	12 @15c
Black Ivory Drop, best.....	12 @25c
Black Paint, in oil.....	8c @10c
Blue Prussian, fair to best.....	40 @55c
Blue Prussian, fair to best, in oil.....	45 @55c
Blue Chinese, dry.....	70c
Blue Ultramarine.....	15 @25c
Brown, Spanish.....	10 @15c
Brown, Van Dyke.....	10 @15c
Green, chrome.....	8 @15c
Green, chrome, in oil.....	12 @15c
Green, Paris, in oil.....	20c @30c
Green, Paris, in oil, good, 20c; best, 25c	
Iron Paint, bright red.....	1 lb 2 1/2c
Iron Paint, brown.....	1 lb 1 1/2c
Iron Paint, purple.....	1 lb 3c
Iron Paint, ground in oil, bright red.....	1 lb 5 1/2c
Iron Paint, ground in oil, brown.....	1 lb 5c
Iron Paint, ground in oil, purple.....	1 lb 6c
Lime Oil, raw.....	58c
Single Balled.....	60c
Double.....	62c
Mineral Paints.....	25 @40c
Orange Mineral.....	10c
Red Lead, American.....	6 1/2 @7c
Red Venetian, (Eng.) dry.....	\$1.50 @ \$1.75
Red Venetian, in oil.....	8c @10c
Red Indian, dry.....	10 @12c
Rose Pink.....	10 @12c
Sienna, American, raw.....	4c
Sienna, burnt.....	4 1/2c
Sienna, burnt, in oil.....	8 @15c
Sienna, raw.....	8 @15c
Umber, burnt, in oil.....	4 @8c
Umber, raw.....	3 1/2 @7 1/2c
Umber, raw, in oil.....	8 @15c
Vermilion, Chinese.....	90c
Vermilion, English.....	50 @55c
Vermilion, American, common.....	15c
White Lead, American, pure dry.....	6 @6 1/2c
White Lead, American, pure in oil.....	6 @6 1/2c
White, Paris, English, prime.....	1 lb 1 1/2c
Yellow Ochre, French, (Paris) dry.....	21 1/2c
Yellow Ochre, Fch, in oil, ass'd cns, 9c; kegs, 5c	
Yellow Ochre, American.....	1 lb 1 1/2c
Yellow Chrome.....	10 @18c
Yellow Chrome, in oil.....	10 @12 1/2c
Zinc White, American, No. 1, dry.....	6 @6c
Zinc White, American, No. 1, in oil.....	9c
Zinc White, French, (Paris) dry.....	21 1/2c
Zinc White, French, in oil.....	10 @14c
OILS.	
Bleached W. Sperm oil.....	1 lb @1 1/2
Nat.....	12 @1 1/2
B. W. Elephant oil.....	7 @c
Whale oil.....	7 @c
Prime Lard oil.....	7 @c
Extra No. 1 Lard oil.....	7 @c

Lubricating oils.....	15 @c
Miners' oil.....	50 @c
W. Pressed Fish oil.....	50 @c
Neatsfoot oil.....	40 @c
Steam-refined Cylinder oil.....	40 @c
Best Filtered.....	65 @c
Signal oil.....	60 @c
Paraffine.....	16 @c
SUNDRIES.	
Benzine.....	1 gal. 8 @10c
Turpentine.....	1 gal. 8 1/2c
Chalk, block.....	1 1/2c
Chalk, block.....	1 1/2c
Dryer, patent, Am's.....	10 @12c
Prostings.....	10c
Glue, white.....	30 @36c
Glue, sheet.....	14 @20c
Glue, ordinary.....	10 @12c
Glaziers' Points, zinc.....	8c
Gum, Copal.....	36c
Gum, Damar.....	35c

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Ernest Ingersoll.

Trajan. A novel. Chapters I, II, and III. Il-

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Ulric Zwingli. Charles H. Hall. Illustra-

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THE LAST NEWS ABOUT KEATS. Joel Benton.

TINKLING CYMBALS. A story. Chapters XII.

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### BUSINESS CHANCES.

For the purpose of making the MANUFACTURERS' RECORD a still more valuable medium of communication between its readers North and South, we will publish, FREE OF CHARGE, short advertisements, not exceeding 40 words, from those in the South who have mills, factories, manufacturing sites or water-power for sale, capital wanted for industrial enterprises, &c., &c.; while readers in other sections who desire to engage in manufactures at the South are also invited to use these columns, without cost, either in seeking information regarding the advantages and special claims of different localities, or for asking about good openings for men and money. This department is also free for Southern manufacturers who wish to advertise for mill managers, superintendents, engineers, &c. In corresponding with any of these advertisers please mention the Baltimore Manufacturers' Record.

SOUTHERN COTTON MILL FOR SALE.—One of the best-known and best-paying mills in the South, running 8,161 spindles, will be sold, to enable division of the property among heirs. Includes 100 acres of land, and river falls, water-power of 6,000-horse power, and can be cheaply increased to 18,000 or 20,000-horse power. Sites on the property for other factories. \$50,000 to \$60,000 worth of new machinery put in in last four years. Mill now in very prosperous condition. A stratum of granite runs through the place, affording an almost inexhaustible supply, as good as any in the country for building purposes. Pure water. Climate healthy and salubrious. Maps, plans, specifications, inventory, and all desired information furnished on application. Address

BIGSBY & EDMONDS,  
Publishers MANUFACTURERS' RECORD, Baltimore.

HANDLE FACTORY FOR SALE.—Including buildings, power and machinery, complete for making all kinds of handles, all in good order and running at present time. Timber, labor, fuel, &c., plenty and cheap. Business profitable. Satisfactory reasons given for selling. For particulars address lock-box 27, Weston, W. Va.

PARTNER WANTED.—A practical man, to take an interest in one of the oldest and best-paying factories in the United States. Plenty of water-power, timber, &c. Big profits and ready sale for all goods made. Located in the most wholesome portion of Mississippi. Address Factory, care of MANUFACTURERS' RECORD, Baltimore, Md.

WOOLEN MILL AND WATER POWER FOR SALE.—Well located in West Virginia, buildings and machinery new, latter of most improved makes. One of the finest water powers in the State. Address G. W. M., care MANUFACTURERS' RECORD, Baltimore, Md.

WATER-POWER.—A very fine water-power, seven miles from Baltimore by driving road and near a railway station, B. & O. R. R. The owner, living in Texas, will sell at a low price. H. W. Rogers, Baltimore.

COTTON MILL FOR SALE.—Built in 1879. In the centre of cotton region; 3,000 spindles; machinery nearly new and first class. Whole can be bought at great sacrifice, or mill will be put into stock company. Full particulars upon application to Bigsby & Edmonds, 27 Second street, Baltimore.

COTTON MILL FOR SALE.—A North Carolina cotton mill, with or without machinery. Well adapted and located for cotton or woolen manufacturing, hosiery, underclothing, rice milling, &c. A great bargain is offered. Satisfactory reasons for selling. Address Bigsby & Edmonds, Baltimore.

CAPITAL WANTED TO BUILD CHARCOAL IRON FURNACES at point that Charcoal Iron can be made and delivered in Pittsburgh or other iron centres inside of sixteen dollars per ton. Address F. J. Chapman, Salem, Va.

WANTED.—Additional capital to put in operation a cotton factory. Company incorporated; 25-acre site purchased; brick for building made and on ground. On E. & W. Railroad of Alabama; in cotton producing section, with easy access to best manufacturers' coal. Railroad shops and Cherokee Iron Furnace and shops located at place. One of the best openings in the South. Address J. E. Houscal, secretary Cotton Manufacturing Co., Cedartown, Ga.

FREE WATER POWER AND FACTORY SITE is offered, very desirably located on railroad, suitable for Paper Mill, Cotton Factory, Furnace or other manufacturing purposes. Address F. J. Chapman, Salem, Va.

LARGE IRON PROPERTY FOR SALE LOW. Immediately on railroad, with fine furnace location, plenty of limestone and water, and cheap fuel. Iron can be made for less than nine dollars per ton. For analysis, location, &c., &c., address F. J. Chapman, Salem, Va.

VALUABLE TANYARD AND PLASTER MILL FOR SALE LOW.—With 2 acres of land, engine, plaster mill, large buildings, vats, water, &c., immediately at depot. Address F. J. Chapman, Salem, Va.

11,000 ACRES LAND FOR SALE in one body, at one dollar per acre, convenient to railroad. Tan bark alone on it worth the money. Address F. J. Chapman, Salem, Va.

FURNITURE FACTORY FOR SALE, OR MANAGING PARTNER WITH CAPITAL WANTED.—A well-equipped, small factory outfit, new. Lumber cheap. Location very healthy. Markets close by. A good chance for the right man. Owner's time occupied with other business. Apply soon. Athens Furniture Works, Athens, East Tennessee.

AT PULASKI, TENN., a company has been chartered for the manufacture of cotton and woolen goods, and cotton-seed oil, with the following directors: Ex-Governor Jno. C. Brown, Col. N. E. Rose, president Giles National Bank, Pulaski; Capt. Jno. D. Plant, cashier of same; Mr. J. P. May, vice-president People's National Bank; Hon. N. Smithson, Dr. D. C. Gordon, J. B. Childers, and L. W. McCord. As a nucleus for immediate operations they take the property of the cotton and woolen mill now in operation, at a very inviting figure, and will utilize its excess of space and power. They offer some of the stock to outsiders, and invite correspondence. Address any of the above directors.

WANTED.—To correspond with parties who use dogwood (for shuttles, spools and bobbins), and oak and hickory (for rims, spokes and plow handles). Address A. D. Jones, Cary, N. C.

SPOKE, HUB AND HANDLE FACTORY.—Gadsden, Ala., offers a splendid opening for a practical man with small capital. Address, McKenzie & Thomson, Gadsden, Ala.

I HAVE a steam saw-mill with power and all modern conveniences, and want a man well posted in wood turning and in the general manufacture of furniture, with capital or without. Address S. W. Williamson, Denton, Md.

WANTED.—Position to take charge of small foundry, or will unite with some one in the business, putting in small capital. Have had full experience. Tennessee or Georgia preferred. Address B., care MANUFACTURERS' RECORD, Baltimore.

WANTED.—A man with a small capital to engage in a good business, already established, in a very healthy locality, not a death in six months in a population of 750 inhabitants. Write to S. Worthen, Bakersville, Mitchell county, N. C.

A MILL AND SIXTY ACRES OF LAND FOR SALE.—An extra chance for a man wanting to come South. Apply to S. Worthen, Bakersville, N. C.

ORE WASHING MACHINERY WANTED.—Mr. Chas. H. Brown, president of the Knoxville Car Wheel Co., Knoxville, Tenn., desires the address of manufacturers of ore-washing machinery.

BOSS DYER WANTS POSITION.—Thirty years experience as practical cotton and wool dyer. Wants position in Southern mill. Address J. M., care MANUFACTURERS' RECORD, Baltimore.

SUPERINTENDENT OF COTTON MILL.—A gentleman of 15 years experience in cotton milling, now overseer of spinning department in a 10,000-spindle mill, wants position as superintendent of cotton mill in the South. Highest references, including present employers. Address F. M., care MANUFACTURERS' RECORD, Baltimore.

WANTED.—Good woolen man as general manager of a new mill. C. M. Jones, Stegalls P. O., Ga.

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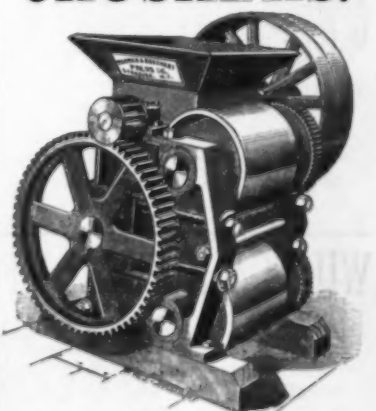
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Presses, Heaters, Hullers, &c.

For Small or Medium-size

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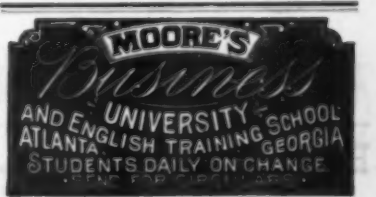
Can furnish estimates for a complete mill or any part thereof. Also BALING PRESSES for Cotton, Woolen or Paper factories.

Lard, Tallow, Oleo and Paraffine Presses.

Correspondence solicited.

Boomer & Boeshart Press Co., Syracuse, N. Y.

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Bolts, Cold-Punched Nuts, Washers,  
Suitable for Machinery of all kinds.

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**REUTER & MALLORY,**

No. 22 LIGHT ST., BALTIMORE, MD.

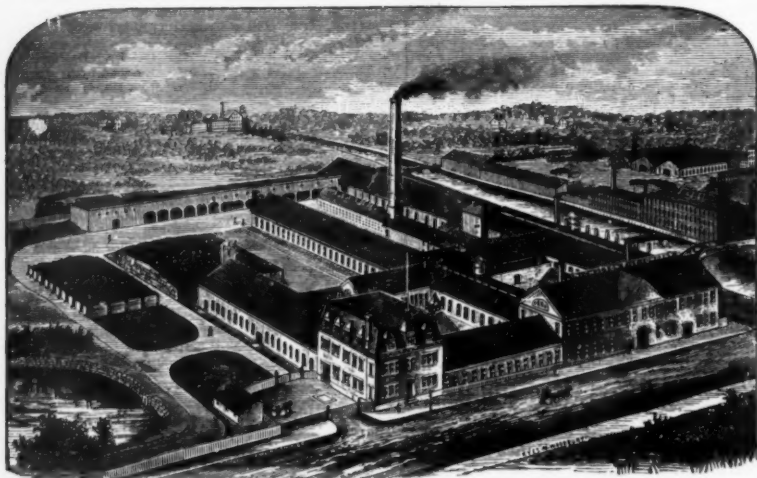
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FORSTEAM, WATER AND  
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Supplies Generally.

SEND FOR PRICE LISTS.

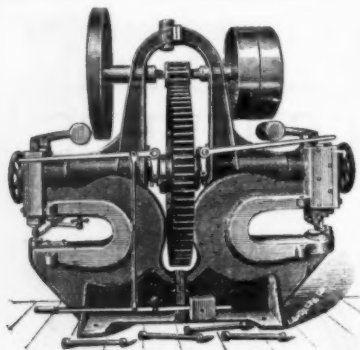
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Works—PROVIDENCE, R. I.—1882.

COMBINED

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Six (6) Sizes.

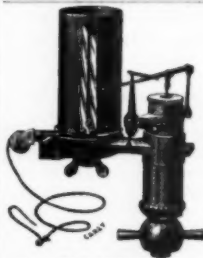
The annexed cut is the design of all sizes that are driven by belt power. When desired we place a small engine on the machine, the crank of which goes on where the pulleys are now shown. The punch and shear are entirely independent of each other, as they are each operated by a clutch, and the sliding-heads counterbalanced. For particular work the hand-wheel is used to set the punch to mark before throwing in the clutch. The stripper is adjustable to different thicknesses of iron.

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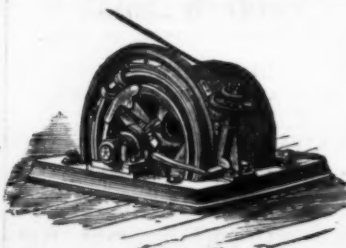
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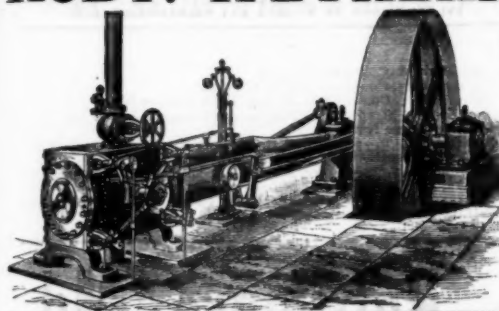
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The SAFEST, SIMPLEST, STRONGEST and  
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**BUILDERS,**  
Condensing, Non-Condensing  
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Economy, Durability and  
Close Regulation.

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**IRON and Steel-Working Machine TOOLS,**

For Railways, Machine Shops and Rolling Mills. Also,

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Were the first parties to design and  
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HANGERS, ADJUSTABLE COUPLINGS,  
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THE STANDARD OF EXCELLENCE.

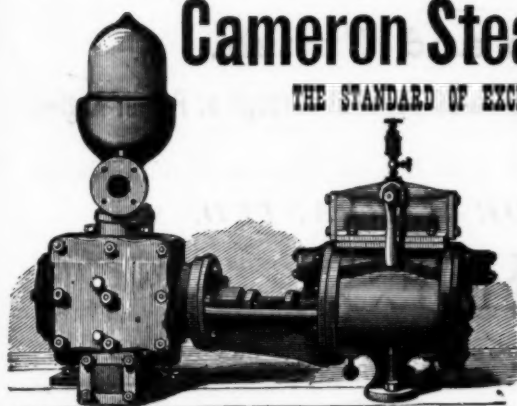
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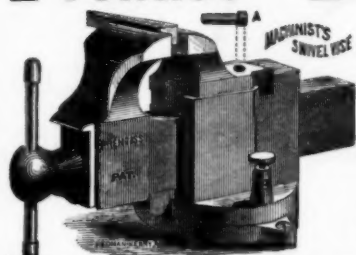
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Adjustable Jaw.

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"Peerless" (Swivel Jaw) Pipe Grip.  
Every Part Interchangeable.  
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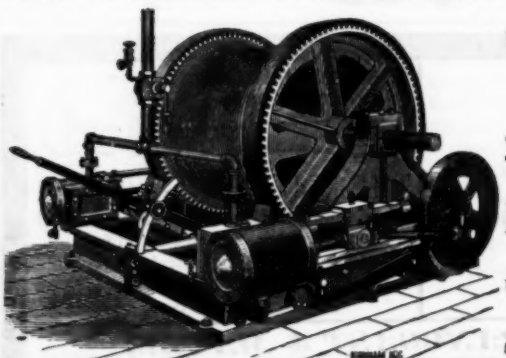
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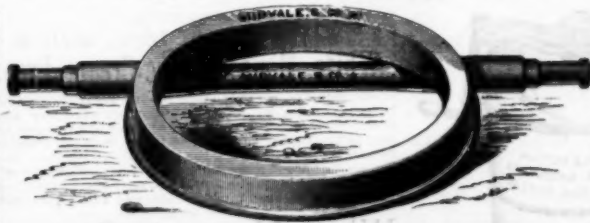
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OF EVERY DESCRIPTION.

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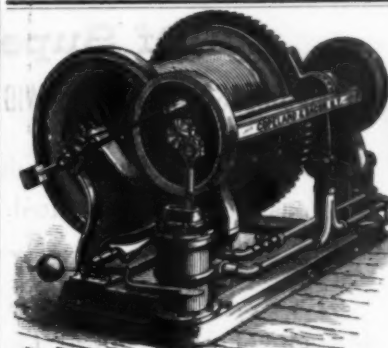
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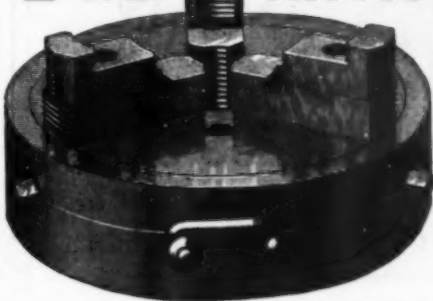
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Screws, Indicators, etc., for  
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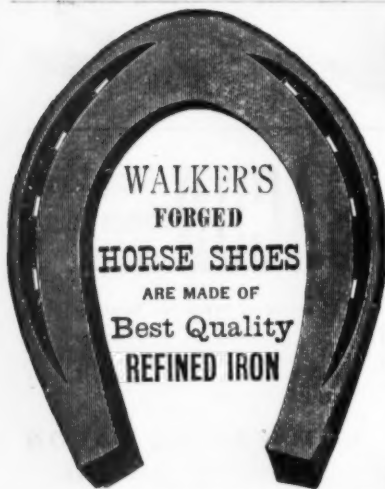
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Of Superior Shape and Finish.

CLEAN CREASE OF PROPER WIDTH AND DEPTH. Nail Holes Punched Through at Proper Angles.

Free from Burs. Outside Edges Smooth and Free from Bulges. Popular with all Shoers, as they are easily fitted. **EVERY SHOE WARRANTED.** ALSO,

## MULE SHOES,

Of Superior Pattern, Quality and Shape. Sole Patentees and Manufacturers.



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Chain and Rope Goods, Adjustable Soldering Irons, &amp;c.

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Just the Tool for Mill, Factory, Machine-Shop, or Pipe-Fitters.

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No. 1 Cuts 1/4 to 2 in.  
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Is the Simplest and Strongest Pipe-Wrench in the Market. Drop Forged from Best Tool Steel.

For full particulars of both these Tools, address and mention this Paper,

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## Baltimore Wholesale Prices.

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Douglas Mfg. Co..... from list of  
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Dowel and Hand Rail Bits..... dis 10  
Ives' "Jennings" Bits..... dis 10  
Expansive Bits, Clark's, small, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 1/4, 33 1/2, 33 3/4, 34, 34 1/4, 34 1/2, 34 3/4, 35, 35 1/4, 35 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1/4,



WIRE.  
Brass and Copper, list of Jan. 17, 1884.....  
Bright and Annealed..... Nos. 0@18, dis 50 &  
Bright and Annealed..... Nos. 18@25, dis 60 &  
Bright and Annealed..... Nos. 27@35, dis 7  
Coppered..... Nos. 0@18, dis 50 &  
Galvanized, Nos. 0 to 18..... market list dis 6  
Tinned, Nos. 0 to 18..... dis 6  
Tinned Broom Wire, Nos. 18 to 25..... dis 6  
Annealed Fence, Nos. 8&9..... dis 5  
Annealed Grape, Nos. 10 to 14..... dis 50 @  
Fence Staples, Galvanized..... ▽ lb 7 @ 7  
Galvanized Barb Fence..... ▽ lb 6  
Buck Thorn Galvanized..... ▽ lb 4  
Picture Wire..... dis 7  
Clothes Line Wire, Galvanized..... \$3.00 ▽ d  
Wire Cloth, green, drab and black..... ▽ sq ft 2½ c r

WRENCHES.  
American Adjustable..... dis 4  
Baxter's Adjustable "S," list Jan., 1880, dis 20 &  
Coxes' Diagonal..... dis 20 &  
Coxes' Genuine..... dis 50 & 10 &  
Coxes' "Mechanics"..... dis 7  
Coxes' Pattern, Malleable..... dis 60 @ 1  
Coxes' Pattern, Wrought..... dis 50 @ 1  
Girard Standard..... dis 50 @ 1  
Girard Agl..... dis 60 &  
Always Ready..... \$9.00—2½

WRINGERS.  
Universal, XX, No. 2½..... 36  
Universal, XX, No. 2..... 42  
Universal, XX, No. 1½..... 51  
Universal, XX, No. 1..... 66  
Universal, XX, No. 12..... each 10  
Universal, XX, No. 18..... dis 22  
Universal, XX, No. 22..... each 30  
Peerless, no Cogs, No. 1..... 42  
Peerless, with Cogs, No. 2½..... 45  
Peerless, with Cogs, No. 2..... 48

THERMOMETERS.  
Tin Case..... dis 7 & 10  
Storm Glasses..... \$3.25 ▽ do

New List, Sept. 1, 1882.

Tinned Swedes Tacks..... dis 30 ½  
Tinned American Tacks..... dis 30 ½  
Swedes Tacks, all kinds..... dis 30 ½  
American Cut Tacks..... dis 30 ½  
Copper Tacks and Nails..... dis 30 ½  
Hungarian Nails..... dis 35 ½  
Gimp and Lace Tacks..... dis 30 ½  
Gimp and Lace Tacks, Tinned..... dis 30 ½  
Finishing Nails..... dis 25 ½  
Trunk and Clout Nails..... dis 25 ½  
Common and Patent Brads..... dis 20 ½  
Basket Nails..... dis 20 ½  
Brush Tacks..... dis 20 ½  
Leathered Carpet Tacks..... dis 20 ½  
Cigar Box Nails..... dis 20 ½  
Double-pointed Tacks..... dis 40 & 5

TAP BORERS.  
Common and Ring..... dis 30  
Ives' Tap Borers..... dis 15 & 10  
Enterprise Mfr. Co..... dis 25

TOBACCO CUTTERS.  
Enterprise Mfr. Co. (Champion)..... dis 25  
Wood Bottom..... ▽ doz \$12.00, dis 40 & 5  
All Iron..... ▽ doz \$9.50, dis 40 & 5  
Wilson's..... dis 25

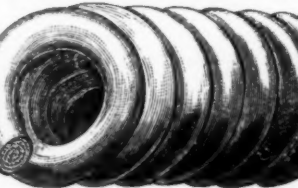
TOE CALKS.  
Winsted..... ▽ lb 9c, dis 5 ½

TRAPS.  
Game, Newhouse..... dis 35  
Game, Oneida Pattern..... dis 40 & 10  
Game, Blake's Patent..... dis 40 & 10  
Mouse, Wood, Choker..... ▽ doz holes, 16  
Mouse, Round Wire..... ▽ doz \$1.50, dis 10  
Mouse Cage, Wire..... ▽ doz \$2.50, dis 10  
Mouse, Catch-em-alive..... ▽ doz \$2.50, dis 10  
Chair Nails..... ▽ doz 75 cts  
Ideal Mouse..... ▽ doz \$1.00

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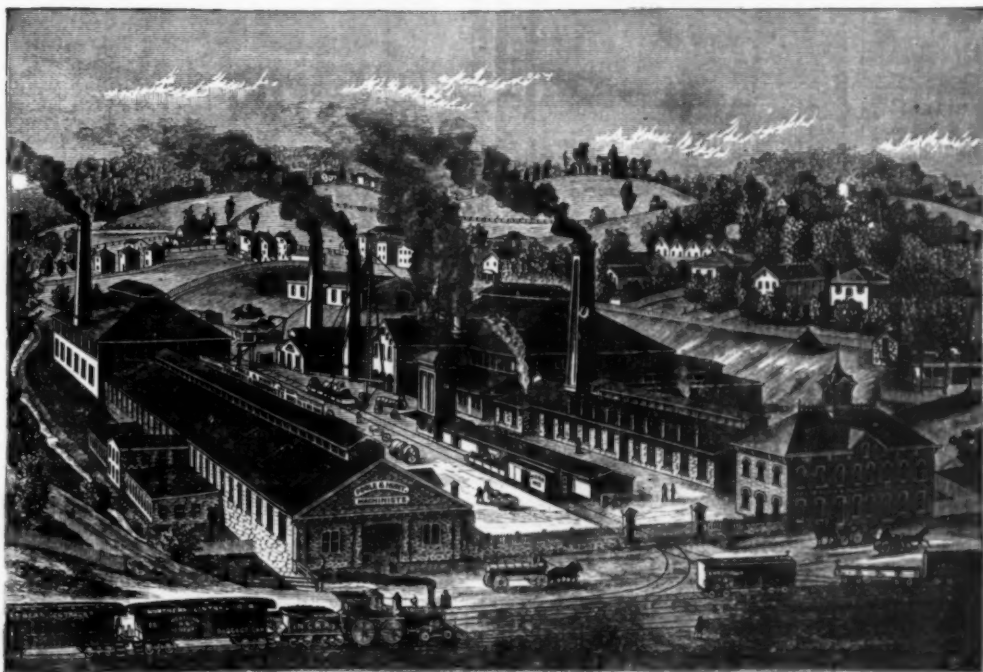
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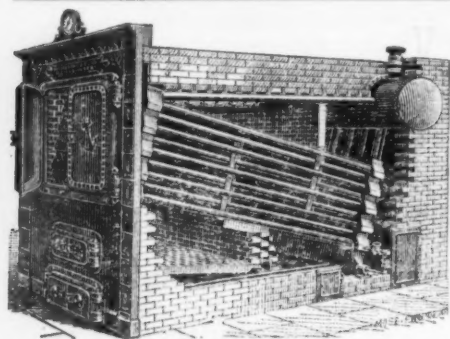
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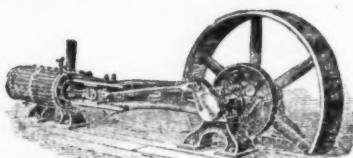
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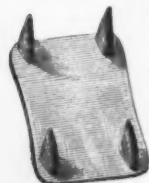
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- 1 Engine Lathe, 14 in. x 5, 6 and 8 ft.
- 1 " " 16 in. x 6 ft.
- 1 each, Engine Lathes, 16 in. x 6, 7, 8 and 10 ft.
- 1 Engine Lathe, 18 in. x 6, 8, 10 and 12 ft.
- 1 " " 20 in. x 8, 10, 12, 14 and 16 ft.
- 1 " " 22 in. x 8, 10, 12, 14 and 16 ft.
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- 1 " " 26 in. " " " " 36 ft.
- 1 " " 28 in. " " " " 46 ft.
- 1 " " 30 in. " " " " 28 ft.
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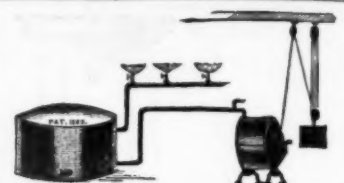
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- 1 Iron Planer, 24 in. x 24 in. x 6 ft.
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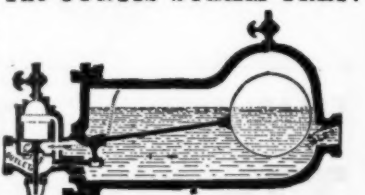
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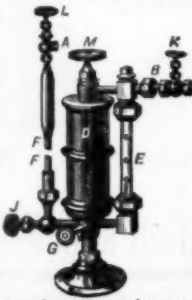
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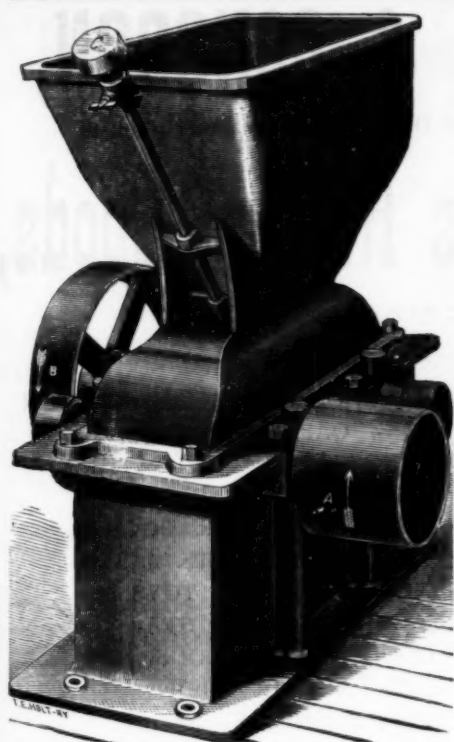
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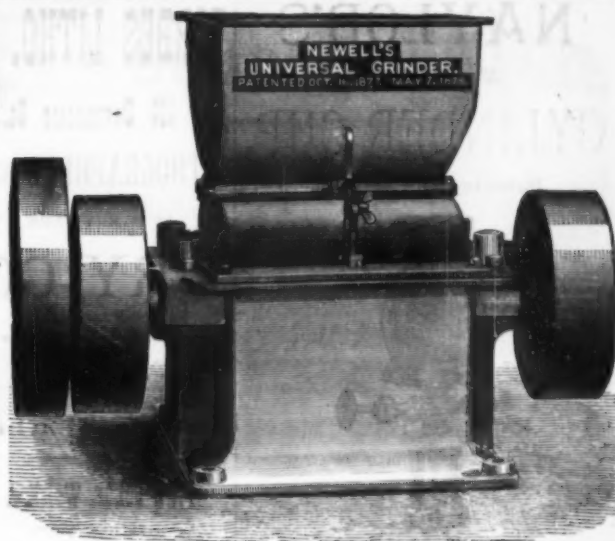
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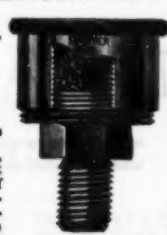
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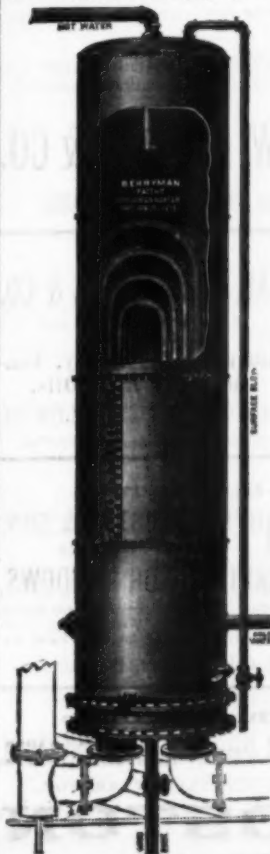
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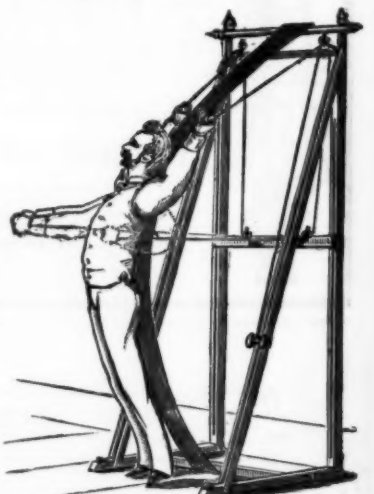


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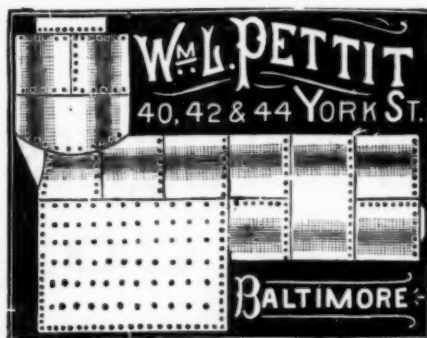
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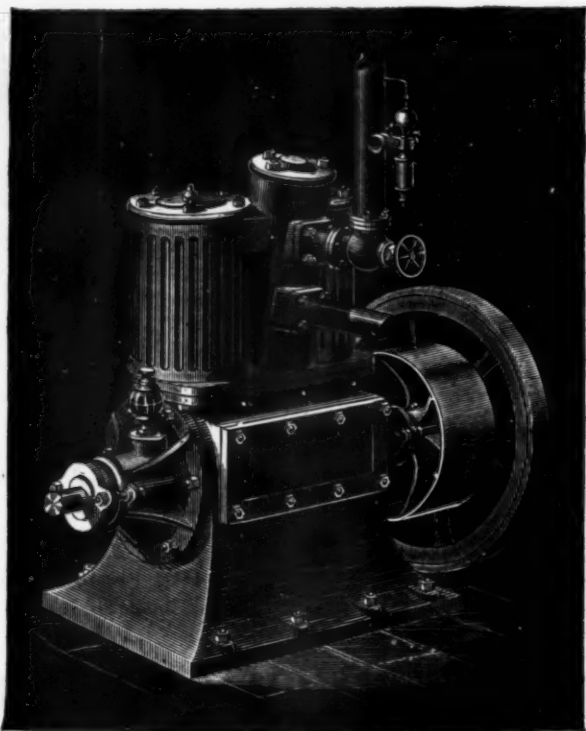
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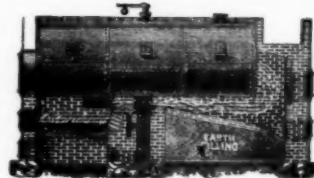
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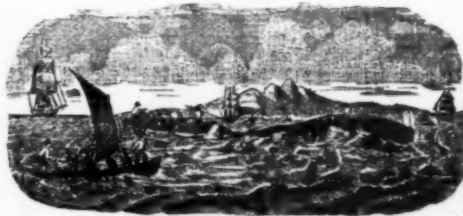
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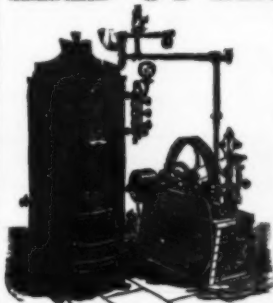
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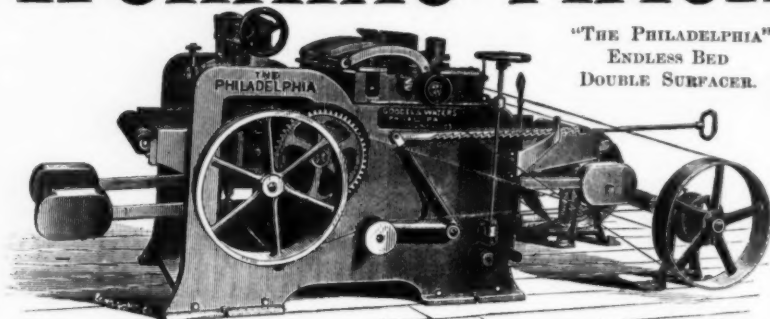
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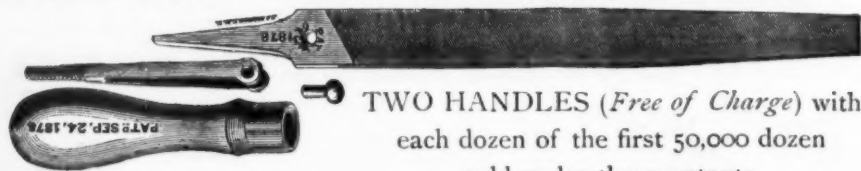
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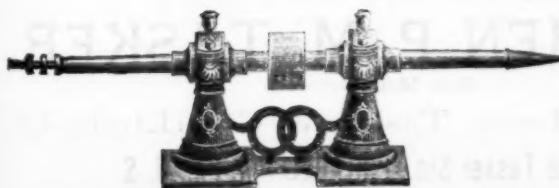
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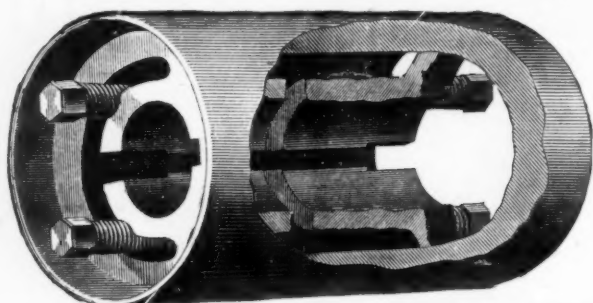
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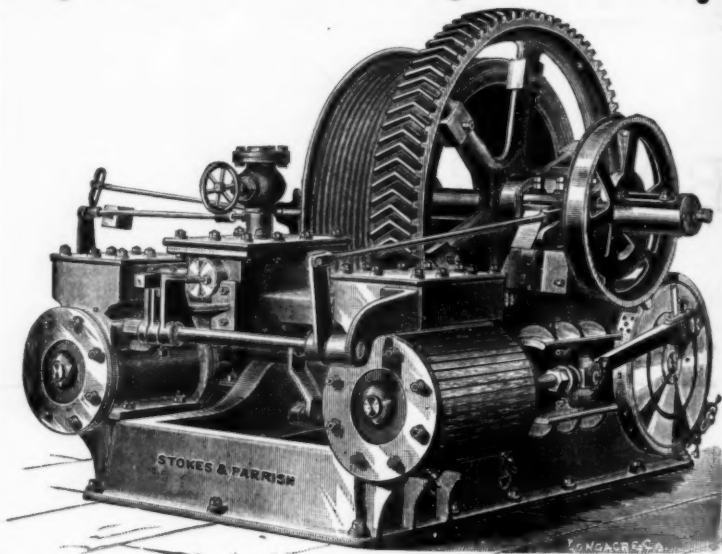
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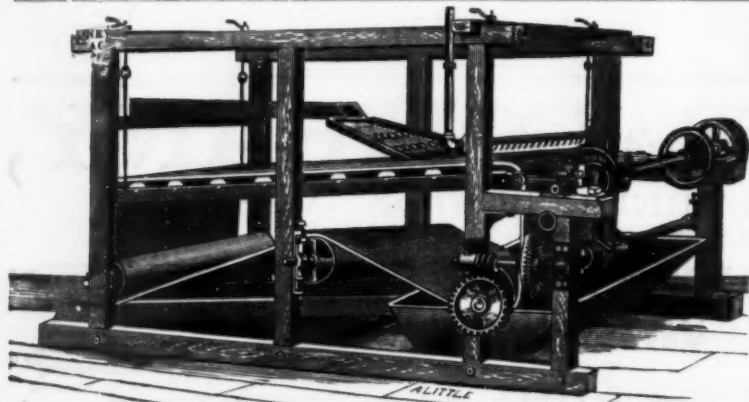
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